kidney

Volume 30, 1986

Editor Emeritus
Roscoe R. Robinson, Nashville

Editor
Thomas E. Andreoli, Houston

Associate Editors
Claude Amiel, Paris
James P. Knochel, Dallas

Consulting Editors
J. S. Cameron, London
Ramzi Cotran, Boston
William G. Couser, Seattle
Gerhard Giebisch, New Haven
Nishio Honda, Hamamatsu
Priscilla Kincaid-Smith, Melbourne
Wilhelm Kriz, Heidelberg
François Morel, Paris

Editorial Board
Vittorio E. Andreucci, Naples
A. W. Asscher, Cardiff
Robert C. Atkins, Melbourne
Knut Aukland, Bergen
Peter Bàlint, Budapest
Lindsay J. Barratt, Bedford Park
Jonas Bergstrom, Stockholm
Ori S. Better, Haifa
Roland C. Blantz, San Diego
Adalbert Bohle, Tubingen
Jean-Philippe Bonjour, Berne
Vittorio Bonomini, Bologna
Barry M. Brenner, Boston
Neal S. Bricker, Los Angeles
Hans R. Brunner, Lausanne
Ruth E. Bulger, Houston
Anthony R. Clarkson, Adelaide
Jack W. Coburn, Los Angeles
Giuseppe D'Amico, Milan
Hugh E. de Wardener, London
Vincent W. Dennis, Durham
Evert J. Dorhout Mees, Utrecht
Jean Dormont, Clamart
Ratislav Dzúrik, Bratislava
Laurence E. Earley, Philadelphia
Bryan T. Emmerson, Brisbane
Marilyn G. Farquhar, New Haven
Thomas F. Ferris, Minneapolis
Eli A. Friedman, Brooklyn
Carmelo Giordano, Naples
Richard J. Glassock, Los Angeles
Jared J. Grantham, Kansas City
J. P. Grünfeld, Paris
Robert A. Gutman, Durham
Renée Habib, Paris
Jean Hamburger, Paris
Lee W. Henderson, San Diego
Robert H. Heptinstall, Baltimore
Klaus Hierholzer, Berlin
Norman K. Hollenberg, Boston
Malcolm A. Holliday, San Francisco
Rex L. Jamison, Stanford
Colin I. Johnston, Melbourne
D. N. S. Kerr, Newcastle-upon-Tyne
Fredrik Kiil, Oslo
Saulo Klahr, St. Louis
Horst Klinkmann, Rostock
Franklyn G. Knox, Rochester
Juha P. Kokko, Dallas
Franciszek Kokot, Katowice
Kiyoshi Kurokawa, Tokyo
Neil A. Kurtzman, Lubbock
Paul H. Lambert, Geneva
Jacob Lemann, Jr., Milwaukee
David Z. Levine, Ottawa
Guy Lemieux, Montreal
Manuel Martinez-Maldonado, San Juan
Shaul G. Massry, Los Angeles
Joël Menard, Paris
Alfred F. Michael, Minneapolis
Paul Michielsen, Louvain
John F. Moorhead, London
L. Gabriel Navar, Birmingham
T. J. Neale, Wellington
Alphonse Nizet, Liege
Karl D. Nolph, Columbia
Jack Orloff, Bethesda
Tadeusz Orlowski, Warsaw
D. Keith Peters, London
Mordecai M. Popovtzer, Jerusalem
Jaime Borrero Ramirez, Medellin
Gabriel Richet, Paris
Jose L. Rodicio, Madrid
George E. Schreiner, Washington, D.C.
Robert W. Schrier, Denver
Donald W. Seldin, Dallas
Fred L. Shapiro, Minneapolis
David P. Simpson, Madison
Jay H. Stein, San Antonio
Liliane Striker, Seattle
Wadi N. Suki, Houston
Roger A. L. Sutton, Vancouver
Richard L. Tannen, Ann Arbor
Klaus Thurau, Munich
C. Craig Tisher, Gainesville
Bruno Truniger, Lucerne
Karl J. Ullrich, Frankfurt
Heinz Valtin, Hanover
Pierre Verroust, Paris
Herman Villarreal, Mexico, D.F.
Mackenzie Walser, Baltimore
Clark D. West, Cincinnati
Guillermo Whittembury, Caracas
Curtis B. Wilson, La Jolla
Douglas R. Wilson, Toronto

Manuscript Editor
Shellie Newell, Houston

Editorial Assistant
Patricia Broussard, Houston

Springer International

The exclusive copyright for all languages and for all countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher.

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Printed in the United States of America by The William Byrd Press Inc., Richmond, Virginia

© 1986 by International Society of Nephrology

Author Index For Volume 30

Aarons I (abst) 624
Abdelhamid S *See* Röckel A et al 429
Adam WR (abst) 622, 627
Adamson O *See* Tejani A et al S-35
Agmon D *See* Winaver J et al 906
Al-Bander HA, Mock DM, Etheredge SB, Paukert TT, Humphreys MH, Morris Jr RC: Coordinately increased lysozymuria and lysosomal enzymuria induced by maleic acid 804
Alberton M *See* Camussi G et al 555
Alcázar J (abst) 135
Alferink THR (abst) 634
Alfrey AC (abst) 623
Allen A (abst) 628
Alonso S (abst) 132
Alpers CE, Cotran RS: Neoplasia and glomerular injury (Editorial Review) 465
Alsina J (abst) 129
Alvarez-Ude F (abst) 135
Anderson SA *See* Toto RD et al 760
Andreesen R (abst) 613
André E (abst) 128
Andreoli TE *See* Friedman PA et al 325
Andrés A (abst) 135
Andrés E (abst) 129
Andres E (abst) 129
Andreu L (abst) 128
Andrews PM, Bates SB: Dietary protein prior to renal ischemia dramatically affects postischemic kidney function 299
Angles-Cano E *See* Rondeau E et al 701
Annat G *See* Bouffard Y et al 920
Appay M-D *See* Hinglais N et al 399
Appel GB *See* D'Agati VD et al 573
Arakawa M *See* Gejyo F et al 385
Aranzábal J (abst) 130
Arbus GS, Geary DF, McLorie GA, Major ML, Berdock SE, Freedman L, Baumal R: Pediatric renal transplants: A Canadian perspective S-31
Ardaillou R (abst) 461
Arend LJ, Thompson CI, Brandt MA, Spielman WS: Elevation of intrarenal adenosine by maleic acid decreases GFR and renin release 656
Argiles A (abst) 638
Arias M (abst) 131
Arnold PF *See* Henrich WL et al 503
Arnold S (abst) 976
Arrázola A (abst) 131
Arrizabalaga P (abst) 128
Ascher NL *See* So SKS et al S-25
Asp N *See* Tuck ML et al 883
Assmann KJ (abst) 636
Assmann KJM (abst) 631
Atkins RC (abst) 613, 618, 625
Aubia J (abst) 128
Aurisch R (abst) 458
Autio-Harmainen H *See* Karttunen T et al 586
Bachmann C (abst) 458
Badr KF, Kelley VE, Rennke HG, Brenner BM: Roles for thromboxane A_2 and leukotrienes in endotoxin-induced acute renal failure 474
Baglin A *See* Cuche J-L et al 566
Bahlmann G (abst) 458
Bailey RR (abst) 616, 617, 624, 626
Bakker WW (abst) 631, 633
Baldwin WM (abst) 636, 637
Baller J (abst) 633
Bankir L (abst) 638
Bannister KA (abst) 614
Baranowski RL, Westenfelder C: A micro method to measure para-amino hippurate and creatinine in plasma and urine (Technical Note) 113
Barceló P, López-Lillo J, Del Rio G: Successful pregnancy in primary glomerular disease 914
Bardin T (abst) 642
Bariety J *See* Hinglais N et al 399
Barnes JL *See* Smolens P et al 874
Baron S (abst) 639
Barrientos A (abst) 134
Bateman ED (abst) 976
Bates SB *See* Andrews PM et al 299
Batho JM (abst) 642
Batlle DC: Segmental characterization of defects in collecting tubule acidification 546
Batuman V, Sastrasinh M, Sastrasinh S: Light chain effects on alanine and glucose uptake by renal brush border membranes 662
Baumal R *See* Arbus GS et al S-31
Baumgartner D (abst) 456
Baxter C (abst) 621
Beattie TJ *See* Feehally J et al 924
Becaus I (abst) 641
Beck LH: Requiem for gouty nephropathy (Nephrology Forum) 280
Becker CG *See* McCrory WW et al 592
Becker G (abst) 620
Becker GJ (abst) 616, 618, 619
Begg EJ (abst) 620, 626
Behar M, Katz A, Silverman M: Biochemical investigation of the pathogenesis of Heymann Nephritis 9
Beilin LJ (abst) 623, 626
Belghiti D (abst) 640
Bello I (abst) 135
Benatar SR (abst) 976
Bennett WM *See* Narasimhan N et al 748
Bensenouci A *See* Levy M et al 949
Bensman A (abst) 639
Berden JHM (abst) 637
Berdock SE *See* Arbus GS et al S-31
Beretta-Piccoli C (abst) 457
Bergeron MG, Marois Y: Benefit from high intrarenal levels of gentamicin in the treatment of *E. coli* pyelonephritis 481
Bergfeld M *See* Finch JL et al 318

Bergfeld MA *See* Delmez JA et al 379
Bertani T, Cutillo F, Zoja C, Broggini M, Remuzzi G: Tubulo-interstitial lesions mediate renal damage in adriamycin glomerulopathy 488
Bertrand O *See* Bouffard Y et al 920
Better OS *See* Winaver J et al 906
Beyne P (abst) 642
Bhakdi S *See* Hinglais N et al 399
Bichsel G (abst) 459
Bidea J (abst) 130
Bilo HJG (abst) 634
Binswanger U (abst) 453, 455, 456, 457, 459
Birch D (abst) 616
Birkenhäger WH (abst) 633
Bishop V (abst) 617
Blackshear JL, Orlandi C, Hollenberg NK: Serotonin and the renal blood supply: Role of prostaglandins and the 5HT-2 receptor 304
Bladé J (abst) 129
Blanchart A (abst) 132
Blancharty A (abst) 130
Blantz RC *See* Pelayo JC et al 62
Blasco R (abst) 134
Blomgren P *See* Evan AP et al 818
Bock A (abst) 457
Boer WH (abst) 633
Bogaert AM (abst) 635
Bogman MJJT (abst) 631
Bogman MJJT *See* Koene RAP et al 1
Bolli P (abst) 457
Bonal J (abst) 129
Bonet J (abst) 129
Bonnet F (abst) 134
Bontemps CM (abst) 636
Bos B (abst) 637
Bos HJ (abst) 637
Bosch R (abst) 134
Botey A (abst) 128
Botha JR (abst) 978, 979, 980
Botha R (abst) 976
Bottini AT *See* Gulyassy PF et al 391
Bouby N (abst) 638
Bouffard Y, Viale J-P, Annat G, Guillaume C, Percival C, Bertrand O, Motin J: Pulmonary gas exchange during hemodialysis 920
Boyce Jr HW *See* Ramirez G et al 99
Boyce NW (abst) 613, 618
Boyce NW, Holdsworth SR: Direct antiGBM antibody induced alterations in glomerular permselectivity ... 666
Boyce NW, Holdsworth SR: Hydroxyl radical mediation of immune renal injury by desferrioxamine 813
Boyce NW, Tipping PG, Holdsworth SR: Lymphokine (MIF) production by glomerular T-lymphocytes in experimental glomerulonephritis 673
Braam B *See* Koomans HA et al 730
Brandt MA *See* Arend LJ et al 656
Brase A *See* Feucht HE et al 932
Brater DC (abst) 632
Brater DC *See* Toto RD et al 760
Brazy PC *See* Coffman TM et al 20
Breckon RD *See* Wilson PD et al 371
Bremer HJ *See* Doehring E et al 582
Brenchley PEC *See* Feehally J et al 924
Brenner BM *See* Badr KF et al 474
Brenner BM *See* Hostetter TH et al 509
Broggini M *See* Bertani T et al 488
Brown RS: Extrarenal potassium homeostasis (Nephrology Forum) 116
Brown WS *See* Marsh JT et al 957
Brown-Cartwright D *See* Toto RD et al 760
Broyer M *See* Kleinknecht C et al 687
Brueggemeyer CD *See* Ramirez G et al 99
Bruneau C (abst) 640
Bruneau M (abst) 641
Brunner F (abst) 457
Buchmann P (abst) 459
Bühler FR (abst) 457
Burg MB, Knepper MA: Single tubule perfusion techniques 166
Burger HR (abst) 453, 456
Burke TJ (abst) 619, 628
Burnett Jr JC, Opgenorth TJ, Granger JP: The renal action of atrial natriuretic peptide during control of glomerular filtration 16
Butcher DE *See* Ramirez G et al 99
Butler E (abst) 627
Butt KMH *See* Tejani A et al S-35
Buttimore AL (abst) 617

Cabrol C (abst) 461
Cal JC (abst) 639
Calne RY: The current state of renal transplantation ... S-23
Cambar J (abst) 639
Cameron JS *See* Savage COS et al 107
Camussi G, Tetta C, Mazzucco G, Monga G, Roffinello C, Alberton M, Dellabona P, Malavasi JF, Vercellone A: Platelet cationic proteins are present in glomeruli of lupus nephritis patients 555
Canaud B (abst) 642
Canga E (abst) 131
Capasso G, Schuetz H, Vickermann B, Kinne R: Amphotericin B and Amphotericin B methylester: Effect on brush border membrane permeability 311
Caralps A (abst) 129
Caramelo C (abst) 130, 132, 133, 134
Carney SL (abst) 621, 622
Carpi-Medina P *See* Whittembury G et al 187
Carrasco LJ (abst) 135
Carter JJ *See* McCredie M et al 81
Casado S (abst) 134
Casamitjana R (abst) 128
Cashman SJ *See* Savage COS et al 107
Cassidy JMD (abst) 131
Cassidy MJD (abst) 975
Castelao AM (abst) 129
Castilla C (abst) 133
Caterson RJ (abst) 625
Caulin-Glaser T *See* Kanwar YS et al 842
Chan L *See* Freeman DM et al 35
Chan Y-L *See* Finch JL et al 318
Chanard J (abst) 642
Charlesworth JA (abst) 615
Chatelet F *See* Verroust P et al 649
Chauveau Ph (abst) 642
Chayen J (abst) 638
Chen M *See* Ramirez G et al 99
Chenoweth DE *See* Cheung AK et al 74
Chenoweth DE *See* Pelayo JC et al 62
Cheriex E (abst) 635
Cheung AK, Chenoweth DE, Otsuka D, Handerson LW:

Compartmental distribution of complement activation products in artificial kidneys 74
Chong G (abst) 642
Chopin N (abst) 641
Claassen H *See* Horber FF et al 411
Clarkson AR (abst) 629
Clarkston AR (abst) 624
Clayman MD *See* Neilson EG et al 264
Climent P (abst) 133
Clinton C (abst) 976
Coates JH (abst) 617
Coburn JW *See* Hercz G et al 944
Cochran M (abst) 617
Codde JP (abst) 623
Coe FL *See* Parks JH et al 85
Coffman TM, Sanfilippo FP, Brazy PC, Yarger WE, Klotman PE: Bilateral native nephrectomy improves renal isograft function in rats 20
Coghlan JP (abst) 620, 621
Cohen J (abst) 979
Cohen JD (abst) 977, 980
Cohen JJ *See* Harrington JT et al 43
Conesa D (abst) 133
Connell JMC (abst) 621, 624
Cornelis R *See* Wallaeys B et al 599
Corominas A (abst) 129
Coronel F (abst) 134
Cortes P, Dumler F, Levin NW: *De Novo* pyrimidine nucleotide biosynthesis in isolated rat glomeruli 27
Cotran RS *See* Alpers CE et al 465
Coupes BM *See* Feehally J et al 924
Couroucé AM (abst) 642
Crivelli MA (abst) 459
Crockett R (abst) 639
Croft KD (abst) 623
Crosnier J (abst) 642
Cruceyra A (abst) 134
Cuche J-L, Prinseau J, Selz F, Ruget G, Baglin A: Plasma free, sulfo- and glucuro-conjugated catecholamines in uremic patients 566
Cunningham-Rundles C *See* McCrory WW et al 592
Cutillo F *See* Bertani T et al 488
Cybulsky AV *See* Salant DJ et al 255

D'Agati VD, Appel GB, Estes D, Knowles II DM, Pirani CL: Monoclonal antibody identification of infiltrating mononuclear leukocytes in lupus nephritis 573
d'Apice AF (abst) 614
d'Apice AJF (abst) 618, 619
D'Haese P (abst) 632
Daelemans R (abst) 632
Daha MR (abst) 636
Daniels L (abst) 624
Darnell A (abst) 128
Daudon M (abst) 641
Davidovitz M (abst) 619
Davidson MB *See* Tuck ML et al 883
Davison L (abst) 626
Dawborn JK (abst) 615
De Broe ME (abst) 632
de Chaderevian JP (abst) 978
de Francisco ALM (abst) 131
de Jong PE (abst) 634, 636
de Jonge FAA (abst) 636
De Keijzer MH (abst) 631
De Keyzer L (abst) 635
de la Piedra C (abst) 133
de Leeuw PW (abst) 633
de Prost D (abst) 639
De Roose J (abst) 635
De Roy G *See* Verbeelen D et al 68
de Ryter JW (abst) 633
De Smet R (abst) 632
de Torrenté A (abst) 454
de Waal RMW *See* Koene RAP et al 1
de Zeeuw D (abst) 632, 634, 636
Deen WM *See* Yoshioka T et al 538
Del Rio G *See* Barceló P et al 914
Delarue F *See* Rondeau E et al 701
Dellabona P *See* Camussi G et al 555
Delmez JA, Fallon MD, Bergfeld MA, Gearing BK, Dougan CS, Teitelbaum SL: Continuous ambulatory peritoneal dialysis and bone 379
Denton DA (abst) 620, 621
Depner TA *See* Gulyassy PF et al 391
Derkx FHM (abst) 634
Dhondt JL (abst) 638
Diaz L (abst) 130
Díaz-Tejeiro R (abst) 130, 131
Díez J (abst) 130, 131
Dirks JH *See* Quamme GA et al 152
Dodu C *See* Kleinknecht C et al 687
Doehring E, Ehrich JHH, Bremer HJ: Reversibility of urinary tract abnormalities due to Schistosoma haematobium infection 582
Doehring RO (abst) 977
Donker AJM (abst) 634, 636, 637
Dorhout Mees EJ (abst) 633
Dorhout Mees EJ *See* Koomans HA et al 730
Dougan CS *See* Delmez JA et al 379
Dowling J (abst) 629
Dowling JP (abst) 614, 616, 620
Dracon M (abst) 638
Drake B (abst) 619
Drew PA (abst) 629
Drieu L (abst) 461
Droz D (abst) 642
Drüeke T (abst) 642
Druet P (abst) 639
Duarte-Silva M (abst) 453, 455
Duggan KA (abst) 615, 627
Duggin G (abst) 615, 621, 622
Duggin GG (abst) 626
Dumler F *See* Cortes P et al 27
Dumur V (abst) 638
Dunn MJ *See* Simonson MS et al 524
Dussel R *See* Steinhausen M et al 361

Eby B *See* Gafter U et al 497
Eckstein RP (abst) 630
Eestermans G (abst) 632
Egido J (abst) 134
Ehrich JHH *See* Doehring E et al 582
Eisenstein B (abst) 619
Ellis HA (abst) 131
Emmett M *See* Ramirez JA et al 753
Erickson AL *See* Henrich WL et al 503
Erne P (abst) 457
Errasti P (abst) 130, 131
Esbrit P (abst) 133

Espanol T (abst) 129
Esterman AJ (abst) 627
Estes D *See* D'Agati VD et al 573
Etheredge SB *See* Al-Bander HA et al 804
Evan AP, Tanner GA, Blomgren P, Knopp LC: Proximal tubule morphology after single nephron obstruction in the rat kidney 818
Evans DJ *See* Savage COS et al 107
Eyres A (abst) 626

Fairley K (abst) 616
Fairley KF (abst) 624, 629
Falk RJ, Jennette JC: Immune complex induced glomerular lesions in C5 sufficient and deficient mice 678
Fallon MD *See* Delmez JA et al 379
Farndon JM (abst) 131
Farquhar MG *See* Kerjaschki D et al 229
Fathi N *See* Ramirez JA et al 753
Faugere M-C, Malluche HH: Stainable aluminum and not aluminum content reflects bone histology in dialyzed patients 717
Faull RJ (abst) 624
Fauth C (abst) 454
Favre H (abst) 454, 458
Feehally J, Beattie TJ, Brenchley PEC, Coupes BM, Mallick NP, Postlethwaite RJ: Sequential study of the IgA system in relapsing IgA nephropathy 924
Feinstein E (abst) 625
Feintzeig ID *See* Salant DJ et al 255
Fernández Cruz A (abst) 133
Feucht HE, Jung CM, Gokel MJ, Riethmüller G, Zwirner J, Brase A, Held E, O'Neill GJ: Detection of both isotypes of complement C4, C4A and C4B, in normal human glomeruli 932
Fiegel P *See* Röckel A et al 429
Field MJ (abst) 627
Figdor R (abst) 628
Figuerola D (abst) 128
Finch JL, Bergfeld M, Martin KJ, Chan Y-L, Teitelbaum S, Slatopolsky E: The effects of discontinuation of aluminum exposure on aluminum-induced osteomalacia 318
Fine RN *See* Hercz G et al 944
Fine RN, Salusky IB: CAPD/CCPD in children: Four years' experience S-7
Fischer JW (abst) 626
Flavier JL (abst) 642
Fleming J *See* Steinhausen M et al 361
Fletcher PJ (abst) 622
Foidart JM (abst) 636
Folb PI (abst) 976
Fong JCS (abst) 978
Fong JSC (abst) 978, 979
Fonteyne E (abst) 641
Ford BM (abst) 975
Fordtran JS *See* Ramirez JA et al 753
Fournier A (abst) 638
Francais JL (abst) 641
Frank BH *See* Rabkin R et al 348
Fraser R (abst) 621, 624
Freedman L *See* Arbus GS et al S-31
Freeman DM, Chan L, Yahay H, Holloway P, Ross BD: Magnetic resonance spectroscopy for the determination of renal metabolic rate in vivo 35
Frei D (abst) 454
French CB, Genel M: Pathophysiology of growth failure in chronic renal insufficiency S-59
Frendin TJ (abst) 617, 620
Frey FJ (abst) 455, 459
Frey FJ *See* Horber FF et al 411
Friedman P (abst) 625
Friedman PA, Andreoli TE: Effects of (CO_2 + HCO_3^-) on electrical conductance in cortical thick ascending limbs 325
Frömter E: The electrophysiological analysis of tubular transport 216
Frösner G (abst) 453
Frutos MA (abst) 130
Fryd DS *See* So SKS et al S-25
Fryd DS *See* Strigel JE et al S-44
Fuller C *See* Pak CYC et al 422
Fuller SM *See* Ramirez G et al 99
Funke K (abst) 458
Furman KI (abst) 977
Fusi M *See* Tejani A et al S-35

Gabow PA (abst) 628
Gabow PA *See* Wilson PD et al 371
Gafter U, Eby B, Martin C, Lau K: Response of spontaneously hypertensive rats to $1,25(OH)_2D_3$ in vivo 497
Gainza J (abst) 130
Gallego E (abst) 134
Gallo GR *See* Kanwar YS et al 842
Ganguly R *See* Ramirez G et al 99
García Castro T (abst) 132
García Valdecas J (abst) 132
García-Hoyo R (abst) 134
García-Sanz J-A (abst) 129
Garner MG (abst) 622
Gasser J (abst) 453
Gaya J (abst) 128
Gearing BK *See* Delmez JA et al 379
Geary DF *See* Arbus GS et al S-31
Geers AB *See* Koomans HA et al 730
Gejyo F, Odani S, Yamada T, Honma N, Saito H, Suzuki Y, Nakagawa Y, Kobayashi H, Maruyama Y, Hirasawa Y, Suzuki M, Arakawa M: β2-microglobulin: A new form of amyloid protein associated with chronic hemodialysis 385
Gely F (abst) 640
Genel M *See* French CB et al S-59
Gentil MA (abst) 132
Gerber C *See* Horber FF et al 411
Giansiracusa R *See* Linas SL et al 736
Gibbons N *See* Singhal PC et al 862
Gil Vernet S (abst) 129
Gillies AHB (abst) 622
Giovannoni JL (abst) 454
Glez Posada J (abst) 130
Glez-Molina M (abst) 130
Gloor F (abst) 455
Gmaj P *See* Murer H 171
Gmür J (abst) 456
Gnädinger MP (abst) 454, 455, 458, 459
Gokel MJ *See* Feucht HE et al 932
Goldberg B (abst) 979, 980
Goldfarb B (abst) 640
Goldszer RC *See* Kelly RA et al 723

Golper TA *See* Narasimhan N et al. 748
Golper TA, Saad A-MA, Morris CD: Gentamicin and phenytoin sieving through hollow-fiber polysulfone hemofilters 937
Gomez JR (abst) 131
González E *See* Whittembury G et al 187
González-Cabrero J (abst) 134
Gonzalez M (abst) 131
Good Jr JT *See* Linas SL et al 736
Goodman WG *See* Kraut A et al 694
Goodyer PR (abst) 978, 979
Gordon R (abst) 623
Gosselin B (abst) 638
Gouyon JB (abst) 453, 455
Graham JC (abst) 615
Grande J (abst) 131
Granger JP *See* Burnett Jr JC et al 16
Grant C (abst) 133
Grime B (abst) 627
Griñó J-M (abst) 129
Grünig BE (abst) 455
Grossetete J *See* Hinglais N et al 399
Groves BS *See* Nicholls KM et al 417
Gubler M-C *See* Levy M et al 949
Gueris J (abst) 638
Guettier C (abst) 639
Guignard J-P (abst) 453, 455
Guillaume C *See* Bouffard Y et al 920
Gulyassy PF (abst) 616
Gulyassy PF, Bottini AT, Stanfel LA, Jarrard EA, Depner TA: Isolation and chemical identification of inhibitors of plasma ligand binding 391
Gutiérrez Millet V (abst) 134, 135
Gutiérrez-Rodero F (abst) 135

Habib R *See* Kleinknecht C et al 687
Hackney P *See* Trachtman H et al S-15
Haechler H (abst) 455
Halbwachs-Mecarelli L *See* Levy M et al 949
Hall B (abst) 614, 615, 621, 626
Halland AM (abst) 975
Hammond WS (abst) 619
Handelman WA *See* Henrich WL et al 503
Handerson LW *See* Cheung AK et al 74
Handler JS: Studies of kidney cells in culture 208
Harari R *See* Winaver J et al 906
Hardonk MJ (abst) 631
Harmse L (abst) 977
Harrington JT, Hulter HN, Cohen JJ, Madias NE: Mineralocorticoid-stimulated renal acidification: The critical role of dietary sodium 43
Harris DCH (abst) 617, 619, 623, 628
Harris M (abst) 627
Harris PJ (abst) 622
Harrison P *See* Savage COS et al 107
Hartley B *See* Savage COS et al 107
Haslam RR (abst) 629
Hasler L (abst) 455, 458
Hauptmann G *See* Levy M et al 949
Haverty T *See* Neilson EG et al 264
Hayer M (abst) 635
Hays RM *See* Singhal PC et al 862
Hayslett JP (abst) 456
Hayward A (abst) 975
Heale WF (abst) 615
Heathcote K (abst) 617
Hebert D, Sibley RK, Mauer SM: Recurrence of hemolytic uremic syndrome in renal transplant recipients S-51
Heierli C (abst) 455
Held E *See* Feucht HE et al 932
Hellmüller B (abst) 454, 458, 459
Henny FC (abst) 636, 637
Henrich WL, Walker BR, Handelman WA, Erickson AL, Arnold PF, Schrier RW: Effects of angiotensin II on plasma antidiuretic hormone and renal water excretion 503
Henrich WL: Hemodynamic instability during hemodialysis (Nephrology Forum) 605
Henry MA (abst) 622
Hercz G, Salusky IB, Norris KC, Fine RN, Coburn JW: Aluminum removal by peritoneal dialysis: Intravenous vs. intraperitoneal deferoxamine 944
Hermans J (abst) 637
Hernando L (abst) 132, 134
Hernando N (abst) 133
Herren D *See* Horber FF et al 411
Herren H (abst) 455
Hertel J *See* Röckel A et al 429
Hesdorffer CS (abst) 976
Heule H (abst) 455
Hickman R (abst) 976
Hiki Y (abst) 625
Hill B (abst) 617
Hill GN (abst) 624
Hinglais N *See* Kleinknecht C et al 687
Hinglais N, Kazatchkine MD, Bhakdi S, Appay M-D, Mandet C, Grossetete J, Bariety J: Immunohistochemical study of the C5b-9 complex of complement in human kidneys 399
Hirasawa Y *See* Gejyo F et al 385
Hirayama P *See* Rabkin R et al 348
Hirschel B (abst) 458
Hishida A *See* Ikuma K et al 836
Hogg RJ (abst) 624
Hoitsma AJ (abst) 637
Holdsworth SR (abst) 613, 614, 618, 620
Holdsworth SR *See* Boyce NW et al 666, 673, 813
Holiday MA: Nutrition therapy in renal disease S-3
Hollenberg NK *See* Blackshear JL et al 304
Holloway P *See* Freeman DM et al 35
Holloway PAH *See* Ratcliffe RJ et al 355
Honda N *See* Ikuma K et al 836
Hong J *See* Tejani A et al S-35
Honma N *See* Gejyo F et al 385
Hooke DH (abst) 618
Hoppeler H (abst) 455
Hoppeler H *See* Horber FF et al 411
Horber FF (abst) 455, 459
Horber FF, Hoppeler H, Herren D, Claassen H, Howald H, Gerber C, Frey FJ: Altered skeletal muscle ultrastructure in renal transplant patients on prednisone 411
Horvath J (abst) 615, 621, 622, 626
Hostetter TH, Meyer TW, Rennke HG, Brenner BM, Noddin JA, Sandstrom DJ: Chronic effects of dietary protein in the rat with intact and reduced renal mass 509
Howald H (abst) 455
Howald H *See* Horber FF et al 411

Huarte E (abst) ... 132
Hugli TE *See* Pelayo JC et al ... 62
Huisman RM (abst) ... 632
Hulter HN *See* Harrington JT et al ... 43
Humair L (abst) ... 454
Humphreys MH *See* Al-Bander HA et al ... 804
Hurault de Ligny B (abst) ... 642
Huser B (abst) ... 453
Hutchison BG (abst) ... 619

Ibels LS (abst) ... 615, 617, 627, 629, 630
Ichikawa I *See* Yoshioka T et al ... 538
Ichikawa I, Kon V: Role of peritubular capillary forces in the renal action of carbonic anhydrase inhibitor .. 828
Ihle BU (abst) ... 620
Ikuma K, Honda N, Hishida A, Nagase M: Loss of glomerular responses to vasoconstrictor agents in rabbits recovering from ARF ... 836
Isaacson LC (abst) ... 975, 976
Ishikawa S, Saito T, Okada K, Tsutsui K, Kuzuya T: Effect of vasopressin antagonist on water excretion in inferior vena cava constriction ... 49

Jackson RV (abst) ... 623
Jacobs D (abst) ... 979
Jacobson HR (abst) ... 632
Jacobson JE (abst) ... 975
Jacquet V (abst) ... 638
Jaeger Ph (abst) ... 456
Jané E (abst) ... 128
Janssen J (abst) ... 635
Janssen S (abst) ... 634
Janssen WMT (abst) ... 634
Jarrard E (abst) ... 616
Jarrard EA *See* Gulyassy PF et al ... 391
Jeannet M (abst) ... 454
Jennette JC *See* Falk RJ et al ... 678
Jofré R (abst) ... 132
Johnson J (abst) ... 615, 626
Johnston CI (abst) ... 621
Jones W (abst) ... 456
Jonker GJ (abst) ... 632
Jouvin MH (abst) ... 639
Joyeux A (abst) ... 642
Junco E (abst) ... 132
Jung CM *See* Feucht HE et al ... 932
Jungers P (abst) ... 641, 642
Jureidini KF (abst) ... 624, 629

Kala U (abst) ... 979
Kalkman CJ (abst) ... 636
Kanfer A (abst) ... 639
Kang CW *See* Tungsanga K et al ... 891
Kanwar YS, Caulin-Glaser T, Gallo GR, Lamm ME: Interaction of immune complexes with glomerular heparan sulfate-proteoglycans ... 842
Kaplan BS (abst) ... 978, 979
Kark A (abst) ... 979
Karttunen T, Risteli J, Autio-Harmainen H, Risteli L: Effect of age and diabetes on type IV collagen and laminin in human kidney cortex ... 586
Kashgarian M (abst) ... 456
Kasinath BS, Maaba MR, Schwartz MM, Lewis EJ: Demonstration and characterization of C3 receptors on rat glomerular epithelial cells ... 852
Katz A *See* Behar M et al ... 9
Kaufman H (abst) ... 619
Kazandjian M (abst) ... 640
Kazatchkine MD (abst) ... 639
Kazatchkine MD *See* Hinglais N et al ... 399
Kelley VE *See* Badr KF et al ... 474
Kelly CJ *See* Neilson EG et al ... 264
Kelly RA, O'Hara DS, Mitch WE, Steinman TI, Goldszer RC, Solomon HS, Smith TW: Endogenous digitalis-like factors in hypertension and chronic renal insufficiency ... 723
Kent GN (abst) ... 619
Kent J (abst) ... 619
Kerjaschki D, Sawada H, Farquhar MG: Immunoelectron microscopy in kidney research 229
Kerr DNS (abst) ... 131
Kershaw MJ *See* Savage COS et al ... 107
Kesselhut J (abst) ... 617
Keusch G (abst) ... 453, 456, 457
Khawar MR *See* Tejani A et al ... S-35
Kincaid-Smith P (abst) ... 616, 620, 626, 629
Kincaid-Smith PS (abst) ... 614, 616, 618, 619, 624
Kinne R *See* Capasso G et al ... 311
Kint A (abst) ... 635
Kinzel P (abst) ... 458
Kiowski W (abst) ... 457
Kirkpatrick D (abst) ... 616
Kissane JM *See* Portman RJ et al ... 91
Kleiman MS (abst) ... 977
Klein RF *See* McCrory WW et al ... 592
Kleinknecht C, Laouari D, Hinglais N, Habib R, Dodu C, Lacour B, Broyer M, Nalbandian E, Lacoste M: Role of amount and nature of carbohydrates in the course of experimental renal failure ... 687
Kleinknecht D (abst) ... 640
Klinkmann H (abst) ... 458
Klotman PE *See* Coffman TM et al ... 20
Knepper MA *See* Burg MB et al ... 166
Knopp LC *See* Evan AP et al ... 818
Knowles II DM *See* D'Agati VD et al ... 573
Kobayashi H *See* Gejyo F et al ... 385
Koene RAP (abst) ... 637
Koene RAP, de Waal RMW, Bogman MJJT: Variable expression of major histocompatibility antigens: Role in transplantation immunology ... 1
Kogure K *See* Kumano K et al ... 433
Kohout G *See* Levy M et al ... 949
Kokko JP *See* Toto RD et al ... 760
Kon V *See* Ichikawa I et al ... 828
Kon V *See* Yoshioka T et al ... 538
Koomans HA (abst) ... 633
Koomans HA, Braam B, Geers AB, Roos JC, Dorhout Mees EJ: The importance of plasma protein for blood volume and blood pressure homeostasis 730
Kootte AAM (abst) ... 637
Kopple JD *See* Monteon FJ et al ... 741
Korda A (abst) ... 615
Koretsky AP (abst) ... 627
Kotchen TA *See* Welch WJ et al ... 712
Kotler L (abst) ... 615
Kraut A, Mishler DR, Singer FR, Goodman WG: The effects of metabolic acidosis on bone formation and bone resorption in the rat ... 694
Krayenbühl J (abst) ... 456
Kücherer H *See* Steinhausen M et al ... 56

Kumano K, Kogure K, Tanaka T, Sakai T: A new method of inducing experimental chronic renal failure by cryosurgery (Technical Note) 433
Kumar R: The metabolism and mechanism of action of 1,25-dihydroxyvitamin D_3 (Editorial Review) 793
Kuntz D (abst) 642
Kuwahara M, Sasaki S, Shiigai T, Takeuchi J: Glutamine transport in the rabbit proximal straight tubule: Effect of acute acid pH 340
Kuzuya T *See* Ishikawa S et al 49

Labeeuw M (abst) 641
Lacoste M *See* Kleinknecht C et al 687
Lacour B *See* Kleinknecht C et al 687
Lacour B (abst) 641
Lagrue G (abst) 640
Laidlaw SA *See* Monteon FJ et al 741
Lambert PH (abst) 455
Lameire N (abst) 633
Lameire N *See* Wallaeys B et al 599
Laminski N (abst) 978
Laminski NA (abst) 975
Lamm ME *See* Kanwar YS et al 842
Lampreabe I (abst) 130
Landais P (abst) 640
Landmann J (abst) 453
Landsverk J *See* Marsh JT et al 957
Lang RE (abst) 454, 455, 459
Laouari D *See* Kleinknecht C et al 687
Largiadër F (abst) 456, 459
Lau K *See* Gafter U et al 497
Laurent J (abst) 640
Lauzurica R (abst) 129
Lavaud S (abst) 642
Laville M (abst) 639
Lawrence JR (abst) 623, 627
Lazarro V (abst) 621
LeFloch V (abst) 639
LeQuesne G (abst) 629
Leaker B (abst) 616, 629
Ledingham JGG *See* Ratcliffe RJ et al 355
Lee S *See* Ward DM et al 706
Leflon P (abst) 638
Lelievre G (abst) 638
Lemoigne F (abst) 639
Lens XM (abst) 128, 129
Leong AS-Y (abst) 625
Lesavre P *See* Levy M et al 949
Leunissen KML (abst) 635
Lever AF (abst) 621, 624
Levi JA (abst) 630
Levin NW *See* Cortes P et al 27
Levy M, Halbwachs-Mecarelli L, Gubler M-C, Kohout G, Bensenouci A, Niaudet P, Hauptmann G, Lesavre P: H deficiency in two brothers with atypical dense intramembranous deposit disease 949
Lewis EJ *See* Kasinath BS et al 852
Leyssac PP: Changes in single nephron renin release are mediated by tubular fluid flow rate 332
Linares H *See* Whittembury G et al 187
Linas SL, Schaefer JW, Moore EE, Good Jr JT, Giansiracusa R: Peritoneovenous shunt in the management of the hepatorenal syndrome 736
Lindemann B *See* Whittembury G et al 187
Lins RL (abst) 632
Lockwood CM (abst) 614, 719
Lockwood CM *See* Savage COS et al 107
Lopez A (abst) 130
López Arrabé C (abst) 133
Lopez de Novales E (abst) 130
López J (abst) 128
López JM (abst) 132
López Novoa JM (abst) 130, 133
López Pedret J (abst) 128
López-Lillo J *See* Barceló P et al 914
Lorenz JN *See* Welch WJ et al 712
Lorenzo V (abst) 130
Lornoy W (abst) 641
Lotan D (abst) 979
Loubaris T (abst) 641, 642
Louis F (abst) 454
Lovett DH, Sterzel RB: Cell culture approaches to the analysis of glomerular inflammation 246
Lozano L (abst) 134
Lumbreras C (abst) 135
Lustig A (abst) 977
Lynn KL (abst) 617, 618, 620, 624

M-Ara J (abst) 132
Maaba MR *See* Kasinath BS et al 852
Maack T: Renal clearance and isolated kidney perfusion techniques 142
Macdonald G (abst) 623
Macdonald GJ (abst) 615, 627
Machado L (abst) 980
Macias J (abst) 130
Macias JF (abst) 131
Maclean J (abst) 622
Madias NE *See* Harrington JT et al 43
Mahony JF (abst) 625
Mahony JF *See* McCredie M et al 81
Majoor GD (abst) 635
Major ML *See* Arbus GS et al S-31
Malavasi JF *See* Camussi G et al 555
Mallick NP *See* Feehally J et al 924
Malluche HH *See* Faugere M-C et al 717
Man NK (abst) 642
Mandet C *See* Hinglais N et al 399
Mann R *See* Neilson EG et al 264
Manzano F (abst) 133
Marín R, Obando MA, Proverbio T, Proverbio F: Effect of a high NaCl diet on the active mechanisms of Na^+ extrusion in rat kidney 518
Marel ML (abst) 623
Margolius LP (abst) 978, 980
Marie A (abst) 638
Markert M (abst) 455
Marois Y *See* Bergeron MG et al 481
Marsh JT, Brown WS, Wolcott D, Landsverk J, Nissenson AR: Electrophysiological indices of CNS function in hemodialysis and CAPD 957
Martín-Comín J (abst) 129
Martínez-Vea A (abst) 128
Martin C *See* Gafter U et al 497
Martin Comin J (abst) 129
Martin J (abst) 131
Martin KJ *See* Finch JL et al 318
Martin X (abst) 641
Maruyama Y *See* Gejyo F et al 385
Massry SS (abst) 625

Matesanz R (abst) ... 132
Mathewes DC (abst) ... 620
Matthew TH (abst) ... 625
Matthys E (abst) ... 633
Mattlinger B (abst) ... 642
Matzke J (abst) ... 458
Mauer SM *See* Hebert D et al ... S-51
Mauer SM *See* So SKS et al ... S-25
Mauer SM *See* Strigel JE et al ... S-44
May J (abst) ... 615, 626
Mazzucco G *See* Camussi G et al ... 555
McCredie M (abst) ... 616
McCredie M, Stewart JH, Carter JJ, Turner J, Mahony JF: Phenacetin and papillary necrosis: Independent risk factors for renal pelvic cancer ... 81
McCrory WW, Becker CG, Cunningham-Rundles C, Klein RF, Mouradian J, Reisman L: Immune complex glomerulopathy in a child with food hypersensitivity ... 592
McDougall JG (abst) ... 620, 621
McDowell J (abst) ... 615
McGowan HM (abst) ... 623
McInnes F (abst) ... 615
McIntosh CG (abst) ... 978
McLorie GA *See* Arbus GS et al ... S-31
Mees L *See* Wallaeys B et al ... 599
Meijer S (abst) ... 634, 635
Melin JP (abst) ... 642
Mendelsohn FAO (abst) ... 628
Mendez M (abst) ... 130
Mestdagh J (abst) ... 641
Meyer TW *See* Hostetter TH et al ... 509
Meyers AM (abst) ... 975, 976, 977, 978, 979, 980
Miach PJ (abst) ... 615
Michel Ph (abst) ... 639
Michielsen P (abst) ... 636
Miguel JL (abst) ... 132
Milcent T (abst) ... 640
Miller JH (abst) ... 613
Millet VG (abst) ... 135
Mills EH (abst) ... 620
Mills M (abst) ... 978, 979
Milne FJ (abst) ... 975, 976, 977, 978, 979, 980
Milner LS (abst) ... 978, 979
Mimran A (abst) ... 638
Mion C (abst) ... 638, 642
Mirapeix E (abst) ... 128
Mishler DR *See* Kraut A et al ... 694
Mitarai T *See* Yoshioka T et al ... 538
Mitch WE *See* Kelly RA et al ... 723
Mock DM *See* Al-Bander HA et al ... 804
Modenhauer F (abst) ... 134
Molenaar JC (abst) ... 631
Molinero L (abst) ... 135
Monga G *See* Camussi G et al ... 555
Monnens LA (abst) ... 636
Montagnac R (abst) ... 640
Monteagudo FSE (abst) ... 976
Monteon FJ, Laidlaw SA, Shaib JK, Kopple JD: Energy expenditure in patients with chronic renal failure ... 741
Montoliu J (abst) ... 128, 129
Moonen CTW *See* Ratcliffe RJ et al ... 355
Moore EE *See* Linas SL et al ... 736
Mooy JMV (abst) ... 635
Mora J (abst) ... 129
Morán J (abst) ... 130
Morales JM (abst) ... 134, 135
Morawski SG *See* Ramirez JA et al ... 753
Morelle V (abst) ... 641
Moreu E (abst) ... 135
Moriniere P (abst) ... 638
Morlaes JM (abst) ... 135
Morlans M (abst) ... 128
Morris CD *See* Golper TA et al ... 937
Morris Jr RC *See* Al-Bander HA et al ... 804
Motin J *See* Bouffard Y et al ... 920
Mourad G (abst) ... 638, 642
Mouradian J *See* McCrory WW et al ... 592
Muir JC (abst) ... 619
Müller FB (abst) ... 457
Müller U (abst) ... 457
Muñoz J (abst) ... 132
Murer H, Gmaj P: Transport studies in plasma membrane vesicles isolated from renal cortex ... 171
Murphy BF (abst) ... 618, 619, 624
Murray J (abst) ... 977, 979, 980
Myers BD: Cyclosporine nephrotoxicity (Nephrology Forum) ... 964

Nagase M *See* Ikuma K et al ... 836
Nagelkerken L (abst) ... 635
Naicker S (abst) ... 977
Najarian JS *See* So SKS et al ... S-25
Nakagawa Y *See* Gejyo F et al ... 385
Nalbandian E *See* Kleinknecht C et al ... 687
Nanra RS (abst) ... 628
Naranjo P (abst) ... 134
Narasimhan N, Golper TA, Wolfson M, Rahatzad M, Bennett WM: Clinical characteristics and diagnostic considerations in acquired renal cystic disease ... 748
Neale TJ (abst) ... 613, 619
Neilson EG, Clayman MD, Haverty T, Kelly CJ, Mann R: Experimental strategies for the study of cellular immunity in renal disease ... 264
Nevins TE *See* So SKS et al ... S-25
Niaudet P *See* Levy M et al ... 949
Nicholls KM, Shapiro MD, Groves BS, Schrier RW: Factors determining renal response to water immersion in non-excretor cirrhotic patients ... 417
Nicholson M (abst) ... 617
Nicol MJ (abst) ... 613
Nicolson SW (abst) ... 975
Nieto J (abst) ... 135
Nieuwhof WN (abst) ... 629
Ninin D (abst) ... 976, 977, 979, 980
Nissenson AR *See* Marsh JT et al ... 957
Nochy D (abst) ... 639
Noddin JA *See* Hostetter TH et al ... 509
Noel Ch (abst) ... 638
Noël LH (abst) ... 642
Norris KC *See* Hercz G et al ... 944
Nubé MJ (abst) ... 636

O'Connell PJ (abst) ... 617, 625, 627
O'Hara DS *See* Kelly RA et al ... 723
O'Neill GJ *See* Feucht HE et al ... 932
Obando MA *See* Marín R et al ... 518
Odani S *See* Gejyo F et al ... 385
Oe PL (abst) ... 634, 637
Ogawa K (abst) ... 621

Okada K *See* Ishikawa S et al 49
Olivan P (abst) 134
Oliver A (abst) 128
Oljans PJ (abst) 636
Oparil S: The sympathetic nervous system in clinical and experimental hypertension (Nephrology Forum) 437
Opgenorth TJ *See* Burnett Jr JC et al 16
Orlandi C *See* Blackshear JL et al 304
Ortuño J (abst) 132
Osuna A (abst) 132
Otero R (abst) 132
Otsuka D *See* Cheung AK et al 74
Ott CE *See* Welch WJ et al 712
Otto R (abst) 453
Owen JP (abst) 131
Oyen R (abst) 637

P-Fontan M (abst) 132
Pak CYC, Sakhaee K, Fuller C: Successful management of uric acid nephrolithiasis with potassium citrate 422
Panitz N *See* Röckel A et al 429
Papapoulos VEF (abst) 633
Parag KB (abst) 977
Parekh N *See* Steinhausen M et al 56, 361
Pérez Calderon R (abst) 132
Pérez Díaz V (abst) 135
Pérez García R (abst) 132
Parkes DG (abst) 621
Parks JH, Coe FL: A urinary calcium-citrate for the evaluation of nephrolithiasis 85
Parsoo I (abst) 977
Pascoe MD (abst) 975
Pascoe V (abst) 625
Pascual R (abst) 128
Pastor C (abst) 129
Pastor JM (abst) 131
Paukert TT *See* Al-Bander HA et al 804
Paul LC (abst) 636, 637
Peddie BA (abst) 616, 617
Pelayo JC, Chenoweth DE, Hugli TE, Wilson CB, Blantz RC: Effects of the anaphylatoxin, C5a, on renal and glomerular hemodynamics in the rat 62
Pellet H (abst) 639
Percival C *See* Bouffard Y et al 920
Peterson LJ *See* Portman RJ et al 91
Phadke K *See* Tejani A et al S-35
Phippard A (abst) 622
Piers DA (abst) 634
Pirani CL *See* D'Agati VD et al 573
Pollock CA (abst) 629, 630
Portale AA *See* Potter DE et al S-11
Portman RJ, Kissane JM, Robson AM, Peterson LJ, Richardson A: Use of β_2 microglobulin to diagnose tubulo-interstitial renal lesions in children 91
Portmann L (abst) 456
Postlethwaite RJ *See* Feehally J et al 924
Potgieter PD (abst) 976
Potter DE, San Luis E, Wipfler JE, Portale AA: Comparison of continuous ambulatory peritoneal dialysis and hemodialysis in children S-11
Powell HR (abst) 628
Pozet N (abst) 641
Praga M (abst) 134, 135
Precht K (abst) 458
Priem F (abst) 458
Prince RL (abst) 619
Prinseau J *See* Cuche J-L et al 566
Proverbio F *See* Marín R et al 518
Proverbio T *See* Marín R et al 518
Provoost AP (abst) 631
Pruszczynski W (abst) 461
Pugsley DJ (abst) 627
Purroy A (abst) 130, 131
Pusey CD *See* Savage COS et al 107
Pussel BA (abst) 615
Pusterla C (abst) 457

Quamme GA, Dirks JH: Physiological techniques: Micropuncture techniques 152
Quereda C (abst) 132
Quist R (abst) 629

R-Puyol D (abst) 130
Reubi FC (abst) 455
Rabkin R, Hirayama P, Roth RA, Frank BH: Effect of experimental diabetes on insulin binding by renal basolateral membranes 348
Radda GK *See* Ratcliffe RJ et al 355
Rafizadeh C (abst) 457
Rahatzad M *See* Narasimhan N et al 748
Raine AEG (abst) 457
Rainfray M (abst) 461
Ramirez G, Chen M, Boyce Jr HW, Fuller SM, Ganguly R, Brueggemeyer CD, Butcher DE: Longitudinal follow-up of chronic hemodialysis patients without vitamin supplementation 99
Ramirez JA, Emmett M, White MG, Fathi N, Santa Ana CA, Morawski SG, Fordtran JS: The absorption of dietary phosphorus and calcium in hemodialysis patients 753
Ramos B (abst) 130
Rapado A (abst) 133
Rascher W (abst) 454, 455
Ratcliffe RJ, Moonen CTW, Holloway PAH, Ledingham JGG, Radda GK: Acute renal failure in hemorrhagic hypotension: Cellular energetics and renal function 355
Raux-Demay MC (abst) 639
Ray C (abst) 622
Reisman L *See* McCrory WW et al 592
Remuzzi G *See* Bertani T et al 488
Rengel M (abst) 132
Rennke HG *See* Badr KF et al 474
Rennke HG *See* Hostetter TH et al 509
Rennke HG *See* Yoshioka T et al 538
Resnik TJ (abst) 457
Retallack RW (abst) 619
Reutter FW (abst) 455
Revaldería JG (abst) 132
Revert L (abst) 128, 129
Revert ML (abst) 131
Ribstein J (abst) 638
Richardson A *See* Portman RJ et al 91
Riethmüller G *See* Feucht HE et al 932
Ringoir S (abst) 632, 633, 635
Risteli J *See* Karttunen T et al 586
Roberts M (abst) 625
Robotti G (abst) 459
Robson AM *See* Portman RJ et al 91
Robson RA (abst) 626
Roca M (abst) 129

Roch-Ramel F (abst) 454, 457
Röckel A, Hertel J, Fiegel P, Abdelhamid S, Panitz N, Walb D: Permeability and secondary membrane formation of a high flux polysulfone hemofilter 429
Rodà M (abst) 128
Rodero FG (abst) 135
Rodicio JL (abst) 135
Rodríguez Puyol D (abst) 133
Roffinello C *See* Camussi G et al 555
Romero R (abst) 129
Ronco PM *See* Verroust P et al 649
Rondeau E, Angles-Cano E, Delarue F, Sultan Y, Sraer J-D: Polyunsaturated fatty acids increase fibrinolytic activity of human isolated glomeruli 701
Roos JC *See* Koomans HA et al 730
Röseler E (abst) 458
Rosenberg L-E (abst) 456
Ross BD *See* Freeman DM et al 35
Rossier B (abst) 454
Rossouw DJ (abst) 975
Roth D (abst) 458
Roth RA *See* Rabkin R et al 348
Roujouleh H (abst) 642
Rozman C (abst) 129
Rudnick J (abst) 977
Ruedin P (abst) 454
Ruff P (abst) 979
Ruget G *See* Cuche J-L et al 566
Ruilope LM (abst) 134
Ruiz Gonzalez MC (abst) 134
Ruiz L (abst) 131
Russell VJ (abst) 975
Ryckelynck JPh (abst) 642

S-Sicilia L (abst) 132
Saad A-MA *See* Golper TA et al 937
Sabaté I (abst) 129
Sabater J (abst) 132
Saito H *See* Gejyo F et al 385
Saito T *See* Ishikawa S et al 49
Sakai T *See* Kumano K et al 433
Sakhaee K *See* Pak CYC et al 422
Salamero P (abst) 128
Salant DJ, Cybulsky AV, Feintzeig ID: Quantitation of exogenous and endogenous components of glomerular immune deposits 255
Salehi N (abst) 629
Salusky IB *See* Fine RN et al S-7
Salusky IB *See* Hercz et al 944
San Luis E *See* Potter DE et al S-11
Sánche J (abst) 134
Sánchez Crespo M (abst) 134
Sancho J (abst) 134
Sanders BA (abst) 618
Sandstrom DJ *See* Hostetter TH et al 509
Sanfilippo FP *See* Coffman TM et al 20
Santa Ana CA *See* Ramirez JA et al 753
Santos JC (abst) 132
Sanz A (abst) 132
Sanz E (abst) 132, 133
Saracho R (abst) 130
Sasaki S *See* Kuwahara M et al 340
Sastrasinh M *See* Batuman V et al 662
Sastrasinh S *See* Batuman V et al 662
Saunders A (abst) 456
Savage COS, Pusey CD, Kershaw MJ, Cashman SJ, Harrison P, Hartley B, Turner DR, Cameron JS, Evans DJ, Lockwood CM: The Goodpasture antigen in Alport's syndrome: Studies with a monoclonal antibody 107
Savige JA (abst) 614, 719
Sawada H *See* Kerjaschki D et al 229
Schaap GH (abst) 634
Schaefer JW *See* Linas SL et al 736
Schalekamp MADH (abst) 634
Schäli C (abst) 457
Scharschmidt LA *See* Singhal PC et al 862
Schillinger F (abst) 640
Schlondorff D: Isolation and use of specific nephron segments and their cells in biochemical studies 201
Schmitt E (abst) 458
Schrier RW (abst) 619, 623, 628
Schrier RW *See* Henrich WL et al 503
Schrier RW *See* Nicholls KM et al 417
Schrier RW *See* Wilson PD et al 371
Schrijver G (abst) 631
Schröder CH (abst) 636
Schuetz H *See* Capasso G et al 311
Schultze RG *See* Tuck ML et al 883
Schuurman Stekhoven JH (abst) 636
Schwartz MM *See* Kasinath BS et al 852
Scoggins BA (abst) 620, 621
Sebert JL (abst) 638
Seedat YK (abst) 977, 978
Seggie J (abst) 975, 976, 979
Seggie JL (abst) 978
Segre GV (abst) 456
Selgas R (abst) 132
Selz F *See* Cuche J-L et al 566
Seron D (abst) 129
Serra A (abst) 129
Seymour AE (abst) 625
Seymour RA (abst) 978
Shaib JK *See* Monteon FJ et al 741
Shapiro MD *See* Nicholls KM et al 417
Sharman JR (abst) 626
Shaw D (abst) 624
Shaw J (abst) 623
Shaw S (abst) 455, 458, 459
Sheil AGR (abst) 615, 626
Sheil R (abst) 615
Shiigai T *See* Kuwahara M et al 340
Shrier RW (abst) 628
Sibley RK *See* Hebert D et al S-51
Sibley RK *See* Strigel JE et al S-44
Siewert H (abst) 458
Silverman M *See* Behar M et al 9
Simmons RL *See* So SKS et al S-25
Simonson MS, Dunn MJ: Leukotriene C_4 and D_4 contract rat glomerular mesangial cells 524
Sinclair-Smith C (abst) 976
Singer FR *See* Kraut A et al 694
Singhal PC, Scharschmidt LA, Gibbons N, Hays RM: Contraction and relaxation of cultured mesangial cells on a silicone rubber surface 862
Skinner SL (abst) 622
Slatopolsky E *See* Finch JL et al 318
Sluiter WJ (abst) 636
Smeyers-Verbeke J *See* Verbeelen D et al 68
Smith TW *See* Kelly RA et al 723

Smolens P, Barnes JL, Stein JH: Effect of chronic administration of different Bence Jones proteins on rat kidney ... 874
So SKS, Mauer SM, Nevins TE, Fryd DS, Sutherland DER, Ascher NL, Simmons RL, Najarian JS: Current results in pediatric renal transplantation at the University of Minnesota ... S-25
Sobel A (abst) ... 640
Solomon HS *See* Kelly RA et al ... 723
Solomon J (abst) ... 615
Sonnekus MI (abst) ... 975, 978
Southwood TR (abst) ... 624
Spence CD (abst) ... 620
Spertini F (abst) ... 459
Spielman WS *See* Arend LJ et al ... 656
Spital A, Sterns RH: Paradoxical potassium depletion: A renal mechanism for extrarenal potassium adaption ... 532
Spring KR *See* Strange K et al ... 192
Sraer J-D *See* Rondeau E et al ... 701
Städler P (abst) ... 457
Stanfel L (abst) ... 616
Stanfel LA *See* Gulyassy PF et al ... 391
Stark H (abst) ... 619
Stein JH *See* Smolens P et al ... 874
Steinberg AD: The treatment of lupus nephritis ... 769
Steinhausen M, Kücherer H, Parekh N, Weis S, Wiegman DL, Wilhelm K-R: Angiotension II control of the renal microcirculation: Effect of blockade by saralasin ... 56
Steinhausen M, Weis S, Fleming J, Dussel R, Parekh N: Responses of in vivo renal microvessels to dopamine ... 361
Steinman TI *See* Kelly RA et al ... 723
Sterns RH *See* Spital A et al ... 532
Sterzel RB *See* Lovett DH et al ... 246
Stewart JH (abst) ... 616, 625
Stewart JH *See* McCredie M et al ... 81
Stokes G (abst) ... 623
Strange K, Spring KR: Methods for imaging renal tubule cells ... 192
Strangfeld D (abst) ... 458
Strigel JE, Sibley RK, Fryd DS, Mauer SM: Recurrence of focal segmental glomerulosclerosis in children with steroid resistant nephrotic syndrome following renal transplantation ... S-44
Stuivenberg AZ (abst) ... 632
Subban JV (abst) ... 978
Suleiman AB (abst) ... 618
Sultan Y *See* Rondeau E et al ... 701
Sutherland DER *See* So SKS et al ... S-25
Suzuki M *See* Gejyo F et al ... 385
Suzuki Y *See* Gejyo F et al ... 385
Swainson CP (abst) ... 616, 617, 621, 624
Swanepoel CR (abst) ... 975, 976

Tacquet A (abst) ... 638
Takeuchi J *See* Kuwahara M et al ... 340
Talemaitoga AS (abst) ... 618
Tanaka T *See* Kumano K et al ... 433
Tange JD (abst) ... 622
Tanke HJ (abst) ... 636
Tanner GA *See* Evan AP et al ... 818
Taylor DR (abst) ... 978
Teitelbaum S *See* Finch JL et al ... 318
Teitelbaum SL *See* Delmez JA et al ... 379
Teixidó J (abst) ... 128, 129
Tejani A *See* Trachtman H et al ... S-15
Tejani A, Butt KMH, Khawar MR, Phadke K, Adamson O, Hong J, Fusi M, Trachtman H: Cyclosporine experience in renal transplantation in children ... S-35
Tejani A: Introduction ... S-1
Tejedor A (abst) ... 133
Tejuca F (abst) ... 132
Temple-Camp C (abst) ... 975
Tepper T (abst) ... 635
Teruel JL (abst) ... 132
Tetta C *See* Camussi G et al ... 555
Teule J (abst) ... 635
Thévenet A (abst) ... 642
Thiel G (abst) ... 453, 457
Thienpont L (abst) ... 641
Thier SO (abst) ... 456
Thomas MA (abst) ... 617, 627
Thomas MAB (abst) ... 615
Thompson CI *See* Arend LJ et al ... 656
Thompson TJ (abst) ... 629
Thomson NM (abst) ... 618, 625
Thomson PD (abst) ... 976, 980
Tiggeler RGWL (abst) ... 637
Tiller D (abst) ... 615, 621, 622, 626
Timpl R: Recent advances in the biochemistry of glomerular basement membrane (Editorial Review) ... 293
Tipping PG (abst) ... 614, 618
Tipping PG *See* Boyce NW et al ... 673
Torras J (abst) ... 129
Torras R (abst) ... 128
Torre A (abst) ... 132
Torrente J (abst) ... 134
Torres A (abst) ... 130
Toto RD, Anderson SA, Brown-Cartwright D, Kokko JP, Brater DC: Effects of acute and chronic dosing of NSAIDs in patients with renal insufficiency ... 760
Touam M (abst) ... 642
Toupance O (abst) ... 642
Traba ML (abst) ... 133
Trachtman H *See* Tejani A et al ... S-35
Trachtman H, Hackney P, Tejani A: Pediatric hemodialysis: A decade's perspective ... S-15
Traeger J (abst) ... 639
Tresham JJ (abst) ... 620
Tribe R (abst) ... 976
Trinh-Trang-Tan MM (abst) ... 638
Tsutsui K *See* Ishikawa S et al ... 49
Tuck ML, Davidson MB, Asp N, Schultze RG: Augmented aldosterone and insulin responses to potassium infusion in dogs with renal failure ... 883
Tungsanga K, Kang CW, Walser M: Utilization of alpha-ketoisocaproate for protein synthesis in uremic rats ... 891
Tunney A (abst) ... 626
Turner DR *See* Savage COS et al ... 107
Turner J *See* McCredie M et al ... 81

Uehlinger DE (abst) ... 454, 455, 458, 459
Uhlschmid G (abst) ... 456
Uzan M (abst) ... 642

Valderrábano F (abst) ... 132
Valentijn RM (abst) ... 633
Valera A (abst) ... 130

Vallo A (abst) 130
Van Breda Vriesman PUC (abst) 635
Van Damme B (abst) 636
Van Der Straeten A *See* Verbeelen D et al 68
Van de Vyver FL (abst) 632
van Bockel JH (abst) 637
van Bronswijk H (abst) 637
van Damme B (abst) 637
van der Hem GK (abst) 632, 633, 634, 636
van der Schueren M (abst) 636
van Es A (abst) 636
van Es LA (abst) 636, 637
van Es PN (abst) 633
Van Hoof I *See* Verbeelen D et al 68
van Hooff JP (abst) 635
Van Landschoot N (abst) 632
van Lier HJJ (abst) 637
van Luyk WHJ (abst) 633
van Renen MJ (abst) 624
van Renterghem Leuven Y (abst) 637
van Rijswijk MH (abst) 634
van Valenberg PLJ (abst) 637
van Zyl-Smit R (abst) 975
Vandeputte M (abst) 636
Vandonge R (abst) 626
Vandongen R (abst) 623
Vanholder R (abst) 632, 633, 635
Vasmant D (abst) 639
Veerkamp JH (abst) 636
Veller MG (abst) 980
Verbeelen D, Smeyers-Verbeke J, Van Hoof I, Van Der Straeten A, De Roy G: The effect of desferrioxamine on concentration and distribution of aluminum in bone 68
Verbrugh HA (abst) 637
Vercellone A *See* Camussi G et al 555
Vergnaud M (abst) 642
Verhoef J (abst) 637
Veriava Y (abst) 979
Vermey P (abst) 633
Verpooten GA (abst) 632
Verroust P, Ronco PM, Chatelet F: Monoclonal antibodies and identification of glomerular antigens (Editorial Review) 649
Versluis DJ (abst) 634
Viale J-P *See* Bouffard Y et al 920
Vickermann B *See* Capasso G et al 311
Vidal C (abst) 128
Vila A (abst) 128
Vilella R (abst) 128
Villafruela JJ (abst) 132
Villamediana L (abst) 130
Villamediana LM (abst) 132, 133
Vinay P (abst) 132
Vining R (abst) 624
Virto R (abst) 130, 131
Vogt K (abst) 459
von Graevenitz A (abst) 455
Vriesendorp R (abst) 636

Wüst J (abst) 459
Waer M (abst) 636
Wakeford P (abst) 630
Walb D *See* Röckel A et al 429
Walker BR *See* Henrich WL et al 503
Walker LL (abst) 622
Walker RG (abst) 626
Walker RJ (abst) 617, 621, 624
Wallaeys B, Cornelis R, Mees L, Lameire N: Trace elements in serum, packed cells, and dialysate of CAPD patients 599
Walser M *See* Tungsanga K et al 891
Ward DM, Lee S, Wilson CB: Direct antigen binding to glomerular immune complex deposits 706
Ward MK (abst) 131
Waugh R (abst) 626
Wauters JP (abst) 455, 459
Weeden RP (abst) 632
Weidmann P (abst) 454, 455, 458, 459
Weimar W (abst) 634
Weiner MW (abst) 627
Weis S *See* Steinhausen M et al 56, 361
Welch WJ, Ott CE, Lorenz JN, Kotchen TA: Effects of chlorpropamide on loop of Henle function and plasma renin 712
Wellard RM (abst) 622
Wenting GJ (abst) 634
Westenfelder C *See* Baranowski RL et al 113
White MG *See* Ramirez JA et al 753
Whittembury G, Lindemann B, Carpi-Medina P, González E, Linares H: Continuous measurements of cell volume changes in single kidney tubules 187
Whitworth JA (abst) 620, 621, 624
Wiegman DL *See* Steinhausen M et al 56
Wiggelinkhuizen J (abst) 976
Wilhelm K-R *See* Steinhausen M et al 56
Willcox PA (abst) 976
Williams M (abst) 976
Willink EJ (abst) 631
Wilson CB (abst) 614
Wilson CB *See* Pelayo JC et al 62
Wilson CB *See* Ward DM et al 706
Wilson G (abst) 976
Wilson PD, Schrier RW, Breckon RD, Gabow PA: A new method for studying human polycystic kidney disease epithelia in culture 371
Wilson SK: The effects of angiotensin II and norepinephrine on afferent arterioles in the rat 895
Winaver J, Agmon D, Harari R, Better OS: Impaired renal acidification following acute renal ischemia in the dog 906
Winter D (abst) 620
Wipfler JE *See* Potter DE et al S-11
Wirth H (abst) 457
Wittmer H (abst) 979
Wolcott D *See* Marsh JT et al 957
Wolff ED (abst) 631
Wolfson M *See* Narasimhan N et al 748
Wolthers BG (abst) 635
Woo KT (abst) 616
Wood CJ (abst) 625
Woodroffe AJ (abst) 624, 625, 629
Woolfield NF (abst) 629
Woolner DF (abst) 620
Wright GF (abst) 620
Wyndham RN (abst) 623

Yahay H *See* Freeman DM et al 35
Yamada T *See* Gejyo F et al 385
Yap L (abst) 130, 131

Yarger WE *See* Coffman TM et al 20
Yates NA (abst) 621
Yoshioka T, Mitarai T, Kon V, Deen WM, Rennke HG, Ichikawa I: Role for angiotensin II in an overt functional proteinuria 538

Zürcher RM (abst) 459
Zachée P (abst) 632
Zech P (abst) 639, 641
Zender R (abst) 454
Zingraff J (abst) 642
Zoja C *See* Bertani T et al 488
Zubimendi JA (abst) 131
Zwirner J *See* Feucht HE et al 932

Subject Index for Volume 30

Aboriginal subjects
renal disease, IgA nephropathy (abst) ... 627
urinary tract disease (abst) ... 627
Acetate, serum in hypotension (abst) ... 134
Acidification
distal, furosemide test (abst) ... 130
impaired renal, acute renal ischemia ... 905
renal, dietary sodium role ... 43
segmental characterization of defects in collecting tubule ... 546
Acidosis
maleic acid-induced lysozymuria ... 803
metabolic, bone formation ... 694
O2 during acidosis (abst) ... 132
Acids
polyunsaturated fatty, fibrinolytic activity in glomeruli ... 701
Acquired renal cystic disease
clinical characteristics ... 748
ACTH, renal effects in man (abst) ... 621
Acute acid pH
glutamine transport in proximal straight tubule ... 340
Acute filtration failure (abst) ... 622
Acute renal failure
acidification following ischemia ... 905
dietary protein prior to renal ischemia ... 299
drug associated (abst) ... 640
endotoxin-induced, thromboxane A2 and leukotrienes ... 474
glomerular response to vasoconstrictor agents ... 835
hemorrhagic hypotension ... 355
hemorrhagic hypotension ... 355
in elderly (abst) ... 633
non-Hodgkin's lymphoma (abst) ... 630
prognostic patterns in 1,000 episodes ... 129
survival after (abst) ... 974
value of renal biopsy (abst) ... 453
worsened by phosphate depletion (abst) ... 628
Acute renal insufficiency
legionaires disease (abst) ... 455
Acute tubular necrosis
hemorrhagic hypotension ... 355
Acute vasomotor nephropathy (abst) ... 977
Adenosine elevation, GFR ... 656
Adriamycin glomerulopathy, lesions ... 488
Aged
causes of ARF in (abst) ... 633
Albumin, nephropathy (abst) ... 618
Aldosterone
insulin responses to potassium infusion ... 882
Allograft
improvement in early function with verapamil ... 615
role of major histocompatibility antigens in transplantation ... 1
Alpha-ketoisocaproate, protein synthesis ... 890
Aluminum
affinity constants for, and transferrin (abst) ... 617
chronic hemodialysis population (abst) ... 633
deferoxamine to remove ... 943
desferrioxamine effect on, in bone ... 68
discontinuation, effects on osteomalacia ... 318
excretion in pig (abst) ... 975
not induce uremic osteomalacia (abst) ... 130
stainable reflects bone histology ... 717
toxicity in hemodialysis (abst) ... 978
Aminophylline and caffine (abst) ... 45
Ammonia production, PST ... 340
Amphotericin B
amphotericin B methylester, brush border membrane ... 311
Ampicillin & gentamicin, pyelonephritis ... 481
Amyloid protein, B2–microglobulin ... 385
Amyloidosis
renal tubular function in (abst) ... 634
Analgesic
phenacetin, papillary necrosis, CaP ... 81
Analysis
cell culture approaches in glomerular inflammation ... 246
micro method to measure PAH and creatinine ... 113
electrophysiological ... 216
Anaphylatoxin C3a, C5a
artificial kidney, compartmental distribution of ... 74
Anaphylatoxin C5a, hemodynamics ... 62
Angiotensin II
control of baroreflex sensitivity (abst) ... 622
cortical gradient (abst) ... 628
norepinephrine on afferent aterioles ... 894
plasma antidiuretic hormone and water excretion ... 503
role in overt functional proteinuria ... 538
Anorexia nervosa, potassium homeostasis ... 116
Anti-GBM antibody
induced alterations in glomerular permselectivity ... 666
Anti-GBM-GN
membranous transformation (abst) ... 620
Anti-inflammatory drugs
nonsteroidal in CRF ... 760
Antibodies
anti-tubular basement membrane TIN (abst) ... 614
cellular immunity, experimental strategies ... 264
coated bacteria, UTI (abst) ... 458
HLA sensization and transplantation (abst) ... 131
immunoelectron microscopy in research ... 229
kinetics of circulating and splenic (abst) ... 614
quantitation of components of glomerular immune deposits raised IgA anti-pneumococcal (abst) ... 629
splenic PFC assay (abst) ... 618
study of kidney cells in culture ... 208
Anticystinuric effect of glutamine(abst) ... 456
Antigen
binding to immune complex deposits ... 706
DR distribution in glomerular disease ... 128
functional identity in Goodpasture's ... 128
glomerular, monoclonal antibodies ... 649
Goodpasture in Alport's syndrome ... 107
Heymann Nephritis, biochemical investigation of ... 9
identification in GN (abst) ... 619
macrophage differentiation on mesangial cells (abst) ... 613
major histocompatibility, role in transplantation ... 1

monoclonal antibodies to non-GBM capillary wall (abst) ... 613
Antithrombotic activity of GBM (abst) ... 631
Aoritc reconstruction ... 975
Arginine vasopresin
modulates Na+,K+ cotransport system (abst) ... 131
Arterial hypertension in PHP (abst) ... 133
Arterio-venous fistulas
detection of (abst) ... 129
Articular amyloidosis
B2M in hemodialysis (abst) ... 642
Artificial kidney
complement activation products ... 74
Atrial natriuretic facotr
hemodynamic effect (abst) ... 133
vasopressin release (abst) ... 621
Atrial natriuretic peptide
blood levels, endocrine and excretory effects of Na (abst) ... 459
effects of, on kidney function in man (abst) ... 455
enhancement of renal effects (abst) ... 621
essential hypertension (abst) ... 634
may increase plasma insulin in man (abst) ... 458
release in man (abst) ... 457
release with volume change in CRF (abst) ... 621
renal action of, during glomerular filtration ... 16
synthetic, plasma arginine-vasopressin level (abst) ... 454
Autoimmune nephritis (abst) ... 639
Azotemia during hemodialysis ... 605

B cell crossmatch, HLA-DR in graft(abst) ... 454
Baroflex sensitivity, AII (abst) ... 622
Basement membrane antigens ... 649
Basolateral membranes
experimental diabetes on insulin binding ... 348
high NaCl diet, effect on Na+ extrusion in rat kidney ... 518
Beer drinker, hyponatremia (abst) ... 640
Bence Jones proteins, administration ... 873
Benzolamide, peritubular capillaries ... 827
Binding, antibody, component of deposits ... 255
Biochemistry, isolation, use of nephron ... 201.
Biopsy
renal disease in diabetics (abst) ... 617
T cell subsets (abst) ... 974
value of renal in ARF (abst) ... 453
Blood
serotonin, role of prostaglandins and 5HT-2 receptor ... 304
volume and pressure, plasma protein ... 730
Blood pressure
hemodynamics of calcium channel blockers (abst) ... 130
sympathetic nervous system in hypertension ... 437
Bone
CAPD ... 379
desferrioxamine effect on aluminum in bone ... 68
dietary phosphorus and calcium in hemodialysis ... 753
discontinuation of Al exposure, effect on osteomalacia ... 318
hyperaluminemia (abst) ... 638
lead intoxication (abst) ... 632
metabolic acidosis ... 694
stainable Al reflects histology ... 717
Brush border membrane
amphotericin B and amphotericin B methylester ... 311
Heymann Nephritis, biochemical investigation of ... 9
light chain effects ... 662
tetraethylammonium transport (abst) ... 457
B2 microglobulin
diagnose tubulo-interstitial renal lesions in children ... 91
amyloid protein associated with chronic hemodialysis ... 385

Caffeine and aminophylline (abst) ... 455
Calcitonin
PTH, Ca and magnesium transport (abst) ... 621
Calcitriol levels in CRF (abst) ... 619
Calcium
channel blockers, effects on BP and hemodynamics (abst) ... 130
diet in calcium stone former (abst) ... 641
dietary phosphorus and, in hemodialysis patients ... 753
urinary Ca-citrate index for nephrolithiasis ... 85
1,25(OH)2D3, response of hypertensive rats ... 497
Calcium stone former
citrate and pyrophosphate inhibitors (abst) ... 974
Canada
pediatric renal transplants ... S-31
Cancer
neoplasia and glomerular injury ... 465
renal pelvic, phenacetin and papillary necrosis ... 81
CAPD
bone disease ... 379
catheter related complications (abst) ... 459
CCPD in children ... S-7
ceftazidime (abst) ... 642
CNS function in hemodialysis ... 956
compared with hemodialysis in children ... S-11
long-term treatment (abst) ... 132
opsonic deficiency (abst) ... 976
peritoneal dialysis, nutrition ... 617
peritonitis, biological examination (abst) ... 455
polysulfone hemofilter, gentamicin and phenytoin sieving ... 936
prevention of peritonitis, Y-connected double bag (abst) ... 459
sodium hypochlorite vs. povidone-iodine (abst) ... 976
trace elements in serum, packed cells and dialysate ... 599
Capillary
peritubular forces ... 827
Captopril
potassium tolerance (abst) ... 627
Carbonic anhydrase inhibitor, capillary ... 827
Carcinoma
analgesic nephropathy (abst) ... 641
Cardiac failure, CyA nephrotoxicity ... 963
Carpal tunnel syndrome
B2-microglobulin: new form of amyloid protein, hemodialysis ... 385
hemodialysis (abst) ... 642
Catecholamine in ischemia (abst) ... 458
in renal failure (abst) ... 626
in uremics ... 566
Catheter
CAPD complications (abst) ... 459
subclavian, hemodialysis access ... 975
Tenckoff alternative (abst) ... 976
Cefotaxime in CAPD peritonitis (abst) ... 625
Ceftazidime in CAPD (abst) ... 642
Cell
continuous measurements of volume changes in single tubules ... 187
electrophysiological analysis of transport ... 216

epithelial, C3 receptors ... 851
glomerular immune deposits, quantitation of components ... 255
glomerular inflammation, culture approaches ... 246
imaging renal tubule, methods ... 192
immunity, experimental strategies for study ... 264
isolation and use of specific nephron segments, biochemical ... 201
studies of kidney cells in culture ... 208
Cellular energetics, hypotension ... 355
Central nervous system in CAPD and HD ... 956
Cephalothin & gentamicin, pyelonephritis ... 481
Child
B2 microglobulin to diagnose lesions ... 91
CAPD/CCPD in ... S-7
chronic renal program assessment (abst) ... 977
comparison of CAPD and hemodialysis in ... S-11
cyclosporine in transplantation ... S-35
FGS recurrs in children following transplantation ... S-44
FSGS following renal transplantation ... S-44
isolated hematuria (abst) ... 636
membranous nephropathy (abst) ... 975
nutrition therapy in renal disease ... S-3
pathophysiology of growth failure in CRI ... S-59
recurrence of HUS in transplant recipients ... S-51
results in renal transplantation at Univ of Minnesota ... S-25
Chlorpropamide, loop of Henle ... 712
Chromatography
quantitation of components of glomerular immune deposits ... 255
Chronic renal failure
atrial natriuretic peptide (abst) ... 621
beta blockade (abst) ... 976
calcitriol levels in moderate (abst) ... 619
desferrioxamine effect on aluminum in bone ... 68
dietary management in children (abst) ... 624
energy expenditure ... 741
energy expenditure ... 741
hyperoxaluria (abst) ... 635
induce experimental, by cryosurgery ... 433
physical conditioning (abst) ... 458
quality of life for child (abst) ... 977
renal transplantation in children ... S-25
verapamil slows pregression of (abst) ... 619
Chronic renal insufficiency
digitalis-like factors in ... 723
growth failure ... S-59
nutrition therapy in children ... S-3
pathophysiology of growth failure ... S-59
Chronic serum sickness ... 706
Ciminobrescia arteriovenous (abst) ... 635
Circadian, brush border enzymes (abst) ... 639
Circulating immune complex (abst) ... 619
Cirrhosis
factors determining renal response to water immersion ... 417
interstitial pressure dynamics (abst) ... 132
peritoneovenous shunt in hepatorenal syndrome ... 736
Clearance, renal
isolated perfusion techniques ... 142
Colchicine, proteinuria in HN (abst) ... 977
Collagen, type IV
age and diabetes in human kidney cortex ... 586
Collecting tubule acidification ... 546
Colloid osmotic pressure, protein ... 730
Complement
C5, glomerular lesions ... 678
role of, in neutropenia (abst) ... 455
Computer
handling of clinical data for dialysis (abst) ... 135
Conductance, (CO_2 - HCO_3) electrical ... 325
Cortex
age and diabetes on type IV collagen and laminin ... 586
transport in plasma membrane vesicles isolated from renal ... 171
Cortical gradiant in AII receptor (abst) ... 628
Cortical thick ascending limbs
conductance, (CO_2 + HCO_3) ... 325
Cost of ESRD therapy (abst) ... 459
Cotransport
AVP modulates Na^+,K^+ (abst) ... 131
Cryosurgery
method to induce chronic renal failure by ... 433
Culture
cell, analysis of glomerular inflammation ... 246
kidney cells in ... 208
Cushingold features in children ... S-35
Cutaneous hypersensitivity in ESRD(abst) ... 454
Cyclosporine
allograft function (abst) ... 637
Australian multicenter trial (abst) ... 614
conversion from azathioprine (abst) ... 634
current state of renal transplantation ... S-23
hypertensive effect in sheep (abst) ... 620
idiopathic nephrotic syndrome (abst) ... 640
indium-111–oxine platelets, allograft rejection (abst) ... 129
mechanism (abst) ... 621
nephrotoxicity ... 963
renal transplantation in children ... S-35
tolerance assessment in renal transplant (abst) ... 129
treatment in renal transplantation, azathioprine (abst) ... 130
Cylinduria induced by triamterene (abst) ... 616
Cyst
method to study human polycystic kidney disease in culture ... 371
Cystic, acquired renal disease ... 748
Cystitis (abst) ... 616
C3
receptors on glomerular epithelial cells ... 851
C3a, C5a in artificial kidneys ... 74
C3b receptor
SLE nephritis (abst) ... 639
C4, C4A and C4B complement detection ... 931
C5 mice, glomerular lesions ... 678
C5a anaphylatoxin on hemodynamics ... 62
C5b-9 complex, complement in humans ... 399

Deferoxamine
removes Al in dialysis ... 943
Al-induced osteomalacia ... 318
Dendritic cell, lupus nephritis (abst) ... 618
Deposits, glomerular immune, analysis ... 225
Desferrioxamine
abrogation of renal injury ... 613
effect on aluminum ... 68
renal injury ... 812
Diabetes
ESRD (abst) ... 629
experimental, insulin binding by basolateral membranes ... 348
glomerular pyrimidine nucleotide biosynthesis ... 27

proteinuria prevented by phosphate depletion (abst) ... 623
renal biopsy in (abst) ... 617
Dialysate
trace elements in serum, packed cells and, in CAPD patients ... 599
Dialysate buffer
hemodynamic instability during hemodialysis ... 605
Dialysis
acetate and bicarbonate, plasma volume changes (abst) 635
acquired renal cystic disease ... 748
Al removal by deferoxamine ... 943
biocompatibility (abst) ... 636
body fat alterations in patients, glucocorticoids (abst) .. 459
CAPD/CCPD in children ... S-7
computer handling of clinical data (abst) ... 135
digitalis-like factors in hypertension and CRI ... 723
discontinuation of Al exposure, osteomalacia ... 318
home, hemasite (abst) ... 642
leukopenia, artificial kidneys and C3a, C5a ... 74
long-term CAPD treatment (abst) ... 132
opsonic deficiency (abst) ... 976
pediatric, 10 year's experience ... S-15
re-transplantation (abst) ... 979
recurrent FSGS in children following renal transplantation ... S-44
results in pediatric renal transplantation ... S-25
stainable Al reflects bone histology ... 717
transplantation in children, cyclosporine ... S-35
vitamin supplementation ... 99
Dialyzer
high flux polysulfone hemofilter ... 429
reuse in MHD (abst) ... 979
Diet
blood pressure, fat, prostaglandin synthesis (abst) ... 623
carbohydrate role in renal failure ... 687
high protein vs. low in renal insufficiency (abst) ... 634
improved management in children with CRF (abst) ... 624
K depletion a mechanism for extrarenal K adaptation .. 532
phosphorus and calcium in hemodialysis ... 753
plasma protein, BP and blood volume ... 730
protein prior to ischemia affects postischemic function . 299
proteinuria (abst) ... 631
therapy in children ... S-3
vitamin D_3 mechanism ... 792
Diffuse pulmonary hemmorhage (abst) ... 135
Digitalis-like factors in RI ... 723
Diltiazem (abst) ... 977
Distal renal tubular acidosis ... 546
Diuresis, ANP (abst) ... 455
DMSO
NSAIDs in Heymann's nephritis (abst) ... 978
prevents glomerular injury (abst) ... 977
Dopamine
and indomethacin in rabbit newborns (abst) ... 453
responses of in vivo renal microvessels ... 361
DR antigens in glomerular disease ... 128
Drug associated ARF (abst) ... 640
Dysplasia, renal failure (abst) ... 637

Eicosapentanoic acid, LN (abst) ... 629
Electrical conductance, cTALH ... 325
Electrophysiological index in CAPD, HD ... 956
End-stage renal disease
Canada, pediatric renal transplantation ... S-31
CAPD/CCPD in children ... S-7
Catalonia, Spain ... 128
chilren management ... S-1
FSGS recurrs in children following transplantation ... S-44
human polycystic kidney disease, method to study epithelia ... 371
pediatric hemodialysis, 10 years ... S-15
recurrence of HUS in transplanted children ... S-51
registry of Andalusion region (abst) ... 132
results in pediatric renal transplantation ... S-25
End-stage renal failure
chronic effects of dietary protein ... 509
course of lupus nephritis ... 978
diabetes, 11 years experience (abst) ... 629
factors contribute to cost containment (abst) ... 459
Energy
expenditure in CRF ... 741
Enlapril and hypertension (abst) ... 623
Enzyme
brush border, circadian (abst) ... 639
inhibition, transplantation (abst) ... 638
Epithelia
cultured kidney cells ... 208
human polycystic kidney ... 371
C3 receptors ... 851
Erythema, lupus nephritis ... 769
Excretion
aluminum (abst) ... 975
clearance and isolated kidney perfusion techniques ... 142
desferrioxamine effect on aluminum in bone ... 68
mineralocorticoid-stimulated renal acidification, sodium 43
water, effect of vasopressin antagonist on ... 49

Failure
light chain effects on alanine and glucose uptake ... 662
Failure, renal
aldosterone and insulin responses to potassium infusion ... 882
carbohydrate role in experimental ... 687
stainable Al reflects bone histology ... 717
Familial gout, renal disease ... 280
Fanconi syndrome ... 662
lysozymuria and lysosomal enzymuria, maleic acid ... 803
Fiberoptic bronchoscopy (abst) ... 975
Fibrin deposition in GN (abst) ... 614
Fibrinolytic activity in glomeruli ... 701
Fibrosis, gouty nephropathy ... 280
Flourescent probe, imaging methods ... 192
Focal constriction, AII, norepinephrine ... 894
Focal sclerosis, lesions ... 488
Focal segmental sclerosis
children following renal transplantation ... S-44
Food hypersensitivity
immune complex glomerulopathy in child with ... 592
Furosemide
distal acidification values ... 130
requiem for gouty nephropathy ... 280

Gas, pulmonary exchange during HD ... 919
Gentamicin
high levels in E. coli pyelonephritis ... 481
phenytoin sieving, polysulfone hemofilter ... 936
Glomerular
immune deposits, quantitation of exogenous and endogenous ... 255
pyrimidine nucleotide biosynthesis in isolated glomeruli 27

Glomerular basement membrane
antithrombotic activity, ADPase (abst) ... 631
biochemical advances ... 293
immune complexes, heparan sulfate-proteoglycans ... 841
immunoelectron microscopy in kidney research ... 229
pyrimidine nucleotide biosynthesis in isolated glomeruli 27
Glomerular filtration rate
angiotensin II in proteinuria ... 538
atrial natriuretic peptide renal action during control of . 16
chronic dosing of NSAIDs ... 760
chronic effects of dietary protein ... 509
clearance and isolated perfusion techniques ... 142
intrarenal adenosine elevation ... 656
leukotriene C4 and D4 contract rat glomerular mesangial ... 524
nutrition therapy in renal disease ... S-3
renin release mediated by tubular flow rate ... 332
Glomeruli
immunoelectron microscopy in kidney research ... 229
inflammation, cell culture approaches to analysis ... 246
isolation and use of specific nephron segments and cells ... 201
respones of microvessels to dopamine ... 361
Glomerulonephritis
anti-GBM induced alterations in permselectivity ... 666
diffuse mesangial proliferative (abst) ... 979
diffuse proliferative, macrophages (abst) ... 613
diffuse pulmonary hemmorhage (abst) ... 135
fibrin deposition (abst) ... 614
H deficiency ... 948
idiopathic membranous, 144 cases (abst) ... 624
immune complex induced, lesions in mice ... 678
lymphokine production (abst) ... 618
lymphokine production by glomerular T-lymphocytes ... 673
membranous, neoplasis and glomerular injury ... 465
quantitation of immune deposits ... 255
serum sickness, immune complex disease ... 706
Glomerulopathy
minimal change, 40 patients, 16 years ... 975
Glomerulus
angiotensin II and saralasian ... 56
Glucocorticoid
altered skeletal muscle in transplant patients on prednisone ... 411
dialysis (abst) ... 459
Glutamine
anticystinuric effect (abst) ... 456
transport in proximal straight tubule, acute acid pH ... 340
Goodpasture's antigen
identity between renal and pulmonary ... 128
Goodpasture's syndrome
immunosuppression, plasmapheresis (abst) ... 458
Gout, nephropathy ... 280
Gouty nephropathy ... 280
Granulocyte elastase plasma level (abst) ... 129
Growth
CAPD/CCPD in children ... S-7
comparison of CAPD and HD in children ... S-11
immune complex glomerulopathy, food hypersensitivity ... 592
pathophysiology in chronic renal insufficiency ... S-59
pediatric hemodialysis, 10 years ... S-15
study of kidney cells in culture ... 208
Gut peptide, natriuretic action (abst) ... 627
H deficiency, intramembranous deposit ... 948
Heart failure, congestive
role for AVP and water excretion ... 49
Heart transplant
volume load (abst) ... 641
Hematuria
IgA sequential study ... 923
isolated, 65 children (abst) ... 636
macroscopic, tonsillectomy (abst) ... 134
severe loin pain (abst) ... 615
Hemmorrhage, cryosurgery and CRF ... 433
Hemodialysis
access with subclavian catheters (abst) ... 975
aluminum levels in population (abst) ... 633
amyloidosis and B_2M (abst) ... 642
biocompatibility (abst) ... 636
carpal tunnel syndrome (abst) ... 642
chronic, B_2–microglobulin: amyloid protein associated with ... 385
chronic, without vitamin supplementation ... 99
CNS function in, and CAPD ... 956
compared with CAPD in children ... S-11
comparison with CAPD in children ... S-11
computer modeling of volume changes (abst) ... 453
dialyzer reuse (abst) ... 979
dietary phosphorus and calcium ... 753
granulocyte elastase plasma level (abst) ... 129
hemasite, home (abst) ... 642
hemodynamic instability during ... 605
iron overload (abst) ... 974
plasma free, sulfo-, glucuro-conjugated catecholamines ... 566
pulmonary gas exchange during ... 919
Redy sorbent system (abst) ... 625
sexual dysfunction (abst) ... 617
survival after ARF (abst) ... 974
toxicity of Al (abst) ... 978
uremia on Na^+,K^+ cotransport system (abst) ... 130
Hemodialysis, home
nutrition (abst) ... 618
Hemodialyzer
artificial kidneys, C3a and C5a ... 74
Hemodynamics
angiotensin II ... 503
glomerular, C5a ... 62
Hemofilter
high flux polysulfone ... 429
polysulfone, gentamicin and phenytoin sieving ... 936
Hemolytic uremic syndrome
recurrs in renal transplantation ... S-51
treated with cyclosporine, plasmapheresis therapy (abst) ... 456
Henle
loop flow rate, renin ... 332
Henoch Schonlein nephritis
outcome of patients (abst) ... 624
retrospective review (abst) ... 624
(abst) ... 624
Heparan sulfate-proteoglycans ... 841
Hepatitis B
uremic patients (abst) ... 642
vaccination, transplants ... 453
virus, transplant (abst) ... 453
Hepatorenal syndrome, shunt ... 736
Heymann Nephritis
biochemical investigation of pathogenesis of ... 9

colchicine reduces proteinuria (abst). 977
immunoelectron microscopy in kidney research. 229
DMSO and NSAIDs (abst) 978
monoclonal antibodies 649
High flux polysulfone hemofilter 429
High risk population, tenoxicam (abst) 454
Hippurate, plasma ligand binding 391
HLA-DR in graft recipient (abst) 454
Hodgkin's disease
neoplasia and glomerular injury 465
Homeostasis
extrarenal potassium 116
posassium (abst). 627
Hydrocarbon exposure, MG (abst) 628
Hypomagnesuria (abst) 641
Hyponatremia
beer drinker (abst) 640
Hypotension
hemodynamic instability during hemodialysis. 605
hemorrhagic, acute renal failure 355
serum acetate as factor in hemodialysis (abst) 134
Hypoxemia during hemodialysis 919
Hyptertrophy
phosphatidylcholine metabolism in tubules (abst) 133

Idiopathic cardiomyopathy 963
Idiopathic nephrotic syndrome
cyclosporine (abst). 640
IgA mesangial GN
portal hypertension (abst) 640
IgA nephropathy
aboriginal family (abst) 627
pregnancy. 913
raised IgA anti-pneumococcal antibodies (abst) 629
sequential study of system in relapsing. 923
shared idiotypes in patients (abst). 134
T and B cells alterations (abst) 134
Immune complex 649
deposits, direct antigen binding to 706
glomerulopathy, food hypersensitivity 592
heparan sulfate-proteoglycans 841
lesions in mice 678
Immunity
experimental strategies for study of cellular. 264
Immunoblot analysis
circulating immune complex constituent ID (abst). 619
Immunoelectron microscopy in research 229
Immunosuppression
current state of trnasplantation S-23
cyclosporine in transplantation in children S-35
major histocompatibility antigens in transplantation . . . 1
therapy in renal transplantation (abst) 456
Indapamide (abst) 977
Index, urinary calcium-citrate 85
Indium-111–oxine leukocytes (abst) 129
Indomethacin
and dopamine in rabbit newborns (abst). 453
final outcome on nephrotics (abst) 636
pharmacokinetics (abst). 632
Infants
nephrocalcinosis (abst) 629
Inflammation, glomerular, cell culture 246
Inhibitors of plasma ligand binding 391
Injury
anti-GBM antibody, permselectivity 666
B_2M to diagnose tubulo-interstitial lesions in children . . 91
DMSO prevents glomerular (abst). 977
experimental strategies for study of cellular immunity. . 264
glomerular inflammation, cell culture approaches to analysis 246
glomerular, neoplasia. 465
hydroxyl radical mediation by desferrioxamine 812
hydroxyl radical mediation of immune renal (abst) 613
leukotriene C4 and D4 contract glomerular mesangial cells. 524
monoclonal antibody identification in lupus nephritis . . 573
platelet cationic proteins in lupus nephritis patients. . . . 555
Insulin
atrial natriuretic peptide may increase plasma (abst) . . . 453
binding, experimental diabetes effect on. 348
Interstitial pressure, cirrhosis (abst) 132
Intestinal resistance to $1,25(OH)_2D_3$ 497
Intestine, vitamin D_3 mechanism 792
Intramembranous deposit disease 948
ion-selective microelectrode technique
electrophysiological analysis of tubular transport. 216
Iopamidol, nephrotoxic potential (abst) 976
Iron
overload in CHD (abst) 974
Ischemia
catecholamines in experimental (abst) 458
dietary protein prior to renal. 299
glomerular responses to vasoconstrictor agents in ARF 835
impaired renal acidification 905
thromboxane A2 and leukotrienes in ARF 474
triple therapy in graft recipients (abst) 977
Isograft
bilateral native nephrectomy improves function of 20
Isolated perfused tubule
indomethacin (abst) 632

Kidney
function, clearance and isolated perfusion techniques . . 142

Lactate
acute hypoxic acidosis (abst). 132
O_2 during acidosis (abst) 132
Laminin
age and diabetes on type IV collagen, human kidney cortex 586
Lead
intoxication (abst) 632
intoxication (abst) 629
nephropathy, gouty nephropathy 280
Lectin
isolation of specific nephron segments and cells 201
Legionaires disease, renal (abst) 455
Lesion
adriamycin glomerulopathy 488
B_2 microglobulin to diagnose in children 91
carbohydrate role in renal failure 687
cell culture approaches to glomerular inflammation 246
chronic progressive, lithium (abst) 626
hyperplasia and atherosclerotic (abst). 626
immune complex induced in C5 mice 678
lupus glomerular, plasma exchange (abst) 616
reversibility of urinary tract abnormalities 582
SLE clinical course 976
Leucocyte
passenger dependent, allograft survival (abst) 635

Leukemia
neoplasia and glomerular injury 465
Leukopenia
verapamil blunted (abst) 134
Leukotriene
C4 and D4, mesangial cells 524
thromboxane and, in endotoxin-induced ARF 474
Ligand
binding by uremic plasma (abst) 616
plasma binding, inhibitors of 391
Light chain
alanine and glucose uptake 662
Light microscopic study, imaging methods 192
Lithium
chronic progressive renal lesions (abst) 626
clearance, sodium handling (abst) 633
Liver
vitamin D_3 metabolism and mechanism 792
LLC-PK1, transport of TEA (abst) 454
Loop of Henle, chlorpropamide 712
Lumen obstruction, morphology 817
Lupus nephritis
clinical-pathological correlation (abst) 629
clinico-pathological parameters (abst) 616
course on dialysis (abst) 978
dendritic cell accumulation (abst) 618
eicosapentanoic acid (abst) 629
platelet cationic proteins in glomeruli of 555
treatment of 769
urinary sediment analysis (abst) 639
Lymphocytes, cellular immunity, disease 265
Lymphokine
production by T-lymphocytes (abst) 618
production 673
Lymphoma, non-Hodgkin's (abst) 630
Lysozymuria, maleic acid 803

Macrophage
differentiation antigens on mesangial cells (abst) 613
diffuse proliferative GN (abst) 613
Magnesium
deficiency of vitamin D_3 (abst) 133
Maleic acid
elevation of intrarenal adenosine, GFR & renin release 656
lysozymuria, enzymuria 803
Mannitol
prevention of ARI after transplantation (abst) 637
Matrices, connective, C5b-9 complex 399
Measurement
continuous, of cel volume changes in single kidney tubules 187
electrophysiological analysis of tubular transport 216
electrophysiological analysis of tubular transport 216
renal clearance and isolated kidney perfustion techniques 142
single tubule perfusion techniques 166
Membrane
secondary, formation of high flux polysulfone hemofilter 429
transport studies in vesicles isolated from renal cortex . 171
Membranoproliferative glomerulonephritis
pregnancy 913
Membranous
glomerulopathy, hydrocarbon exposure (abst) 628
nephropathy, childhood (abst) 975
transformation (abst) 620
Mesangial
C4, C4A and C4B complement detection 931
cells cultured on rubber 861
leukotriene C4 and D4 524
Mesangial proliferative GN
clinical features (abst) 979
Metabolic acidosis, bone formation 694
Metabolic rate, renal and NMR 35
Methylester, amphotericin B 311
Microcirculation, AII and saralasin 56
Microdissection in biochemical studies 201
Microelectrode techniques
electrophysiological analysis of tubular transport 216
Micropartition system
measure para-amino hippurate and creatinine 113
Micropuncture techniques 152
Microscopy
immunoelectron, in kidney research 229
Microvessels, responses to dopamine 361
Mineralocorticoid
stimulated renal acidification, dietary sodium 43
Minimal change glomerulopathy
16 years, 40 patients (abst) 975
Minimal change nephrotic syndrome
mononuclear blood cells (abst) 633
Monoclonal antibodies
antigen identification (abst) 619
C4, C4A and C4B complement detection 931
Goodpasture antigen in Alport's syndrome 107
identification of glomerular antigens 649
to non-glomerular basement membrane capillary wall .. 613
Mononuclear
minimal change nephrotic syndrome (abst) 633
Mononuclear
associated with glomerular rejection (abst) 625
leukocytes, lupus nephritis 573
phagocytes, peritonitis in CAPD (abst) 637
Morphine elimination (abst) 620
Multiple myeloma
Bence Jones proteins 873
light chain effects on alanine and glucose uptake 662
Muscle
altered skeletal, prednisone 411
Myeloma
multiple, pattern in initial renal failure 129

Na, K-ATPase
circulating inhibitors of, osmolality (abst) 622
Na-pump, effect of high NaCl diet 518
Natriuresis
atrial natriuretic peptide renal action during GFR 16
Necrosis
acidification following ischemia 905
phenacetin and papillary 81
renal papillary (abst) 616
Neoantigen, C5b-9 complex 399
Neoplasia
and glomerular injury 465
acquired renal cystic disease 748
Nephrectomy
bilateral native, improves renal isograft function 20
dietary protein effects 509
K depletion, mechanism for extrarenal K adaptation ... 532
Nephritis

complement in heterologous phase of (abst) 631
familial, Goodpasture antigen in Alport's syndrome ... 107
Henoch Schonlein (abst) 624
Heymann, biochemical investigation of pathogenesis of 9
idiopathic membranous glomerulo-, 25 years (abst) 624
lupus, clinical-pathological correlation (abst) 629
lupus, monoclonal antibody identification 573
lupus, platelet cationic proteins in 555
lupus, treatment of 769
Nephritogenic immune response 264
Nephrocalcinosis, infants (abst) 629
Nephrolithiasis
urinary calcium-citrate index for evaluation of 85
Nephron
isolation and use of specific segments and cells 201
isolation and use of specific segments and cells 201
micropuncture techniques 152
single tubule perfusion techniques 166
Nephropathy
analgesic (abst) 641
gouty 280
IgA shared idiotypes in serum (abst) 134
IgA, study sequentially 923
membranous, pregnancy 913
Nephrotic syndrome
children, prednisolone (abst) 639
in children (abst) 978
indomethacin (abst) 636
Nephrotoxicity
amphotericin B and amphotericin B methylester, BBM. 311
cyclosporine 963
iopamidol (abst) 976
Nervous system, sympathetic 437
Neutropenia, complement role in (abst) 455
Nicardipine, hypertension (abst) 623
Nifedipine, renal failure (abst) 626
Nitrite
urinary infections (abst) 628
Nocardiosis in transplantation (abst) 978
Norepinephrine
AII effects on afferent arterioles 894
Normotensives in hypertensive families
sodium intake (abst) 457
NSAIDs in renal insufficiency 760
Nuclear magnetic resonance spectroscopy
determines renal metabolic rate in vivo 35
Nucleotide, pyrimidine biosynthesis 27
Nutrition
home HD (abst) 618
therapy in renal disease S-3

Obstruction
proximal tubule morphology after 817
Optical, microelectrode study methods 192
Osmolality, Na,K-ATPase (abst) 622
Osteodystrophy
CAPD and bone 379
children, CAPD/CCPD S-7
Osteomalacia
discontinuation of Al, effects on 318
metabolic acidosis on bone formation 694
Oxigen, free radical & BP (abst) 131

P-aminophenol, filtration failure (abst) 622
Packed cells, trace elements in CAPD 599
Para-amino hippurate
and creatinine, micro-method to measure 113
Paracetamol, necrosis, cancer (abst) 616
Parathyroid activity in children (abst) 619
Parathyroid hormone
calcitonin, Ca and magnesium transport (abst) 621
in chronic hyperparathyroidism, bicarbonate (abst) 456
Parenchyma, renal, carbohydrates in 687
Pediatric
dialysis S-7
hemodialysis, 10 years S-15
renal transplants, Canada S-31
Pelvic cancer, necrosis 81
Peptide
atrial natriuretic, in sheep (abst) 621
atrial natriuretic, renal action during control of GFR... 16
gut (abst) 627
Perfusion
isolated kidney, techniques 142
techniques, single tubule 166
Peritoneal dialysis
nutritional assessment of CAPD (abst) 617
Peritoneovenous shunt in HRS 736
Peritonitis
CAPD (abst) 637
CAPD/CCPD in children S-7
CAPD, exam (abst) 455
cefotaxime in CAPD associated (abst) 625
prevention during CAPD (abst) 459
Permeability, collecting duct (abst) 622
Permselectivity
electricial conductance 325
glomerular 666
pH
acute acid, glutamine transport in proximal straight tubule 340
Pharmacological synergy
gentamicin in treatment of E. coli pyelonephritis 481
Phenacetin and papillary necrosis 81
Phosphate
citrate inhibitors in calcium stone formers 974
depletion, proteinuria of diabetes mellitus 623
handling and PT in children (abst) 619
restriction prevents hypercalcemia (abst) 628
Phosphatidylcholine, hypertrophy (abst) 133
Physical conditioning on ARF (abst) 458
Physiology, renal
micropuncture techniques 152
single tubule perfusion techniques 166
Plasma
antidiuretic hormone, AII 503
(AVP) effect of antagonist on water excretion 49
exchange in treatment of lupus glomerular lesions (abst) 616
impaired ligand binding by uremic (abst) 616
level (abst) 454
ligand binding, inhibitors of 391
osmolality, stable during HD 605
renin, chlorpropamide effect on loop of Henle 712
renal flow measurement techniques 142
systemic arterial; renin release 332
Plasmapheresis
Goodpasture's syndrome (abst) 458
therapy (abst) 456
Plasminogen activators in glomeruli 701

Polarity, kidney cells in culture, study ... 208
Polycationic mediators, lupus nephritis ... 555
Polyclonal activator, kinetics (abst) ... 614
Polycystic kidney disease
method to study human, in culture ... 371
Polymorphonuclear leukocyte and C5a ... 62
Postischemic kidney function, protein ... 299
Potassium
depletion, mechanism for extrarenal K adaptation ... 532
extrarenal homeostasis ... 116
infusion, aldosterone and insulin response ... 882
intracellular compartmentalization (abst) ... 627
secretion, (CO_2 + HCO_3) effect on electrical conductance ... 325
serum, decrease by salbutamol in CRF ... 128
tolerance during captopril therapy (abst) ... 627
Potassium citrate
uric acid nephrolithiasis ... 422
Prednisolone
children, nephrotic syndrome (abst) ... 639
altered skeletal muscle ultrastructure in transplant patient ... 411
cyclophosphamide, TLI (abst) ... 636
lupus nephritis ... 769
physical training impact on transplant patients on (abst) ... 455
Pregnancy
asymptomatic bacteriuria of (abst) ... 617
in renal transplant recipients (abst) ... 615
primary glomerular disease, success ... 913
risk of transplantation (abst) ... 625
Procoagulant activity (abst) ... 639
Progressive renal insufficienty, gout ... 280
Prostaglandin
inhibition, blastic transformation of lymphocytes (abst) 131
synthesis, diet (abst) ... 623
serotonin, 5HT-2 receptor ... 304
vasodepressor phospholipids in hypetension (abst) ... 623
Protein
advances in biochemistry of GBM ... 293
alpha-kietoissocaproate for synthesis ... 890
Bence Jones, effect of chronic administration ... 873
chronic effects of dietary, intact vs. reduced renal mass ... 509
dietary, prior to renal ischemia ... 299
drug, binding in uremia (abst) ... 632
high vs. low in renal insufficiency (abst) ... 634
intake on renal function (abst) ... 134
Na-K-ATP activity in TALH (abst) ... 638
plasma, blood volume and BP ... 730
platelet cationic in glomeruli of lupus nephritis ... 555
Proteinuria
angiotensin II ... 538
diet (abst) ... 631
lesions mediate damage in adriamycin glomerulopathy . 488
pathology findings (abst) ... 135
Proximal tubule
morphology after obstruction ... 817
Pseudo Kaposi sarcoma (abst) ... 635
Pyelonephritis
E. coli, gentamicin ... 481

Radiolabelling, quantitation of deposits ... 255
Receptor
C3 in epithelial cells ... 851
microvessels and dopamine ... 361
Redy sorbent system (abst) ... 625
Registry
ESRD in Andalusian region (abst) ... 132
Rejection
CyA, indium-111–oxine platelets in diagnosis (abst) ... 129
glomerular, mononuclear cells (abst) ... 625
thromboxane B_2 excretion in diagnosis (abst) ... 132
Renal
bilateral nephrectomy improves isograft function in rat. 20
failure in 1,000 episodes (abst) ... 129
function, effect of protein intake on (abst) ... 134
metabolic rate in vivo determined by NMR ... 35
metabolic rate, NMR in determination of ... 35
nutrition therapy in disease ... S-3
papillary necrosis, phenacetin, pelvic cancer ... 81
plasma flow chronic dosing with NSAIDs ... 760
Renal failure
catecholamines (abst) ... 626
dysplasia (abst) ... 637
morphine elimination (abst) ... 620
multiple myeloma, pattern in ... 129
nifedipine (abst) ... 625
Renal stone former
hypomagnesuria (abst) ... 641
Renin
angiotensin II in overt functional proteinuria ... 538
changes in single nephron release, tubular fluid flow rate ... 332
secretion, cyclosporine A (abst) ... 621
Renovascular hypertension ... 437
(abst) ... 632
Rubber surface, cultured cells ... 861

Salbutamol in CRF, K decrease ... 128
Salicylates, dipyrideamole, HUS ... S-51
Saralasin
angiotensin II control of renal microcirculation ... 56
Schistosoma haematobium infection ... 582
Sclerotic glomeruli, dietary protein ... 509
Serotonin
role of prostaglandins and 5HT-2 receptor ... 304
Serum, trace elements in CAPD patients ... 599
Severe loin pain hematuria (abst) ... 615
Shunt, peritoneovenous in HRS ... 736
Silicone surface, culture of cells ... 861
Skeleton, CAPD and bone ... 379
Sodium
amphotericin B methylester, effect on BBM permeability ... 311
blood levels and effects of ATN in man (abst) ... 459
hypochlorite vs. povidone-iodine for CAPD (abst) ... 976
intake in normotensive or hypertensive families (abst) . 457
mineralocorticoid-stimulated renal acidification ... 43
sympathetic nervous system in hypertension ... 437
tubular handling during mineralocorticoid escape (abst) 633
Sodium chloride
(CO_2 + HCO_3) effect on electrical conductance in cTALH ... 325
diet, effect on Na^+ extrusion in rat kidney ... 518
Sodium urate, gouty nephropathy ... 280
Solitary kidney and proteinuria (abst) ... 135
Somatostatin, water permeability (abst) ... 622
Splenic PFC assay (abst) ... 618
Starling forces

carbonic anhydrase inhibitor 827
Statistical report, ESRD in Catalonia 128
Steroid resistent nephrotic syndrome
FSGS recurrs in children following transplantation S-44
Steroid therapy in renal disease (abst) 624
Sterol hormone action, vitamin D_3 792
Stone
calcium former (abst)..... 641
uric acid nephrolithiasis managed with potassium citrate 422
urinary calcium-citrate index for nephrolithiasis 85
Suicide
pediatric hemodialysis, 10 year's experience S-15
Supramolecular architecture GBM 293
Surgery, method to induce CRF 433
Swan-Ganz catheterization 975
Systemic lupus erythematosis
C3b receptor (abst) 639
clinical course (abst) 976
monoclonal antibody identification of mononuclear leukocytes 573

T and B cell
alterations in IgA nephropathy (abst) 134
T cell 1
cellular immunity in renal disease..... 264
subset ratios for allograft survival (abst)..... 636
subsets in biopsy material (abst)..... 974
T-lymphocytes in GN 673
Tenckoff catheter (abst) 976
Tenoxicam and renal function (abst) 454
Tetraethylammonium transport (abst) 454
Thick ascending limb of Henle
protein intake (abst)..... 638
Thrombotic microangiopathy (abst) 614
Thromboxane A2
leukotrienes in endotoxin-induced acute renal failure .. 474
Thromboxane B2 in rejection (abst) 132
TINU syndrome (abst) 638
Tissue
culture analysis of glomerular inflammation 246
damage, C5b-9 role in assessing 399
GBM, advances in the biochemistry of..... 293
Tonsillectomy, hematuria (abst) 134
Total lymphiod irradiation (abst) 636
Transepithelial reabsorption of Na^+ 518
Transferrin, Al (abst) 617
Transplantation
assessment of tolerance, CyA (abst)..... 129
bilateral nephrectomy improves isograft function in rat. 20
CAPD or HD, outcome of renal transplantation (abst) . 457
current state of renal S-23
CyA nephrotoxicity 963
cyclosporin conversion (abst) 634
cyclosporine experience, renal in children S-35
cyclosporine treatment, change to azathioprine (abst).. 130
de novo thrombotic microangiopathy (abst)..... 614
FGS in children following renal S-44
fiberoptic bronchoscopy (abst) 975
graft loss, HLA and second transplant (abst)..... 131
heart (abst)..... 641
hemodynamic alterations (abst)..... 638
hepatitis B (abst) 453
hyperparathyroidism (abst) 615
immunosuppressive therapy (abst) 456
leucocyte, survival (abst)..... 635
major histocompatibility antigens, role in..... 1
mannitol (abst)..... 637
multicenter report on CyA in Australia (abst) 614
nocardiosis (abst)..... 978
outcome after CAPD or HD (abst) 457
patients on prednisone, altered skeletal muscle 411
patients on prednisone, impact of physical training (abst)..... 455
pediatric renal, Canadian perspective S-31
pregnancy (abst)..... 615
recurrence of HUS in recipients S-51
results in pediatric renal S-25
risks of pregnancy (abst)..... 625
secondary (abst)..... 979
T cell subset ratios, survival (abst)..... 636
triple therapy (abst)..... 977
vaccination against hepatitis B virus..... 453
Transport
chlorpropamide on loop of Henle 712
comparative physiology (abst)..... 974
continuous measurement of cell volume changes..... 187
effects of (CO_2 + HCO_3) on electrical conductance, cTALH..... 325
electrophysiological analysis of tubular 216
glutamine in proximal straight tubule 340
kidney cells in culture 208
mechanism, single tubule perusion techniques..... 166
plasma membrane vesicles isolated from renal cortex .. 171
single tubule perfusion techniques 166
TEA across BBM (abst) 457
xipamid effect on Na^+,K^+ (abst) 131
Triamterene induced cylinduria (abst) 616
Trimethoprim
asymptomatic bacteriuria of pregnancy (abst) 617
pyelonephritis..... 481
Tubular
fluid flow rate, single nephron renin release..... 332
micropuncture techniques 152
renal function in amyloidosis (abst) 634
Tubule
blocked, morphology..... 817
continuous measurements of cell volume changes in single..... 187
electrophysiological analysis of transport..... 216
enriched suspensions in proximal and distal (abst)..... 133
imaging renal cells, methods 192
immunoelectron microscopy 229
proximal straight, glutamine transport 340
single, perfusion techniques 166
transport, comparative physiology 974
Tubulo-interstitial lesions
adriamycin glomerulopathy 488
B_2 microglobulin to diagnose in children 91

Ultrafiltration
advances is biochemistry of GBM 293
Uremia
drug protein binding (abst) 632
hemodynamic instability during hemodialysis..... 605
Na^+,K^+ cotransport in erythrocytes (abst) 130
secondary hyperparathyroidism, calcification (abst).... 131
Uremic
alpha-ketoisocaproate for protein synthesis 890
energy expenditure in CRF..... 741

immune response to hepatitis B (abst) 642
lymphocytes, prostaglandin inhibition (abst) 131
osteomalacia, Al (abst) 130
plasma free, sulfo- and glucure-conjugated catecholamines 566
skeleton, CAPD 379
Uric acid nephrolithiasis
potassium citrate in successful management of 422
Uric acid, gouty nephropathy 280
Urinary infections
nitrite (abst) 628
Urinary sediment analysis (abst) 639
Urinary tract
abnormality, reversability 582
disease, aboriginal subjects (abst) 627
infection, ABC (abst) 458
infection, sexual (abst) 616

Vascular resistance, postglomerular 332
Vasculature
AII and norepinephrine 894
renal and C5a 62
Vasoconstriction
adrenergic in human hypertensive kidney (abst) 633
leukotriene C4 and D4 524
loss of glomerular response after ARF 835
Vasopressin
antagonist on excretion 49
atrial natriuretic factor (abst) 621
pressor action of, in essential hypertension 128
release, angiotensin II 503
Verapamil
blunted leukopenia (abst) 134
improvement of early renal allograft function (abst) ... 615
slows CRF (abst) 619
Vesicles
transport studies in plasma membrane 171
Vitamin
D_3 metabolism and mechanism 792
supplementation, chronic hemodialysis without 99
Voltage
electrical conductance in cTALH 325
electrophysiologic analysis 216
Volume
atrial natriuretic peptide release (abst) 457
computer moduling of changes during hemodialysis (abst) 453

Water
immersion in non-excretor cirrhotic patients 417
renal response factors in non-excretor cirrhotic patients 417

Xanthyne Oxydase, blood flow (abst) 131
Xipamid, diuretic on transport (abst) 131

$1,25(OH)_2D_3$ 792
magnesium deficiency (abst) 133
response of hypertensive rats 497

KIDNEY INTERNATIONAL

Volume 30, Number 1, July 1986

Official Journal of the International Society of Nephrology

Le Journal de la Société Internationale de Néphrologie

Table of contents

EDITORIAL REVIEW

Variable expression of major histocompatibility antigens: Role in transplantation immunology. *Robert A.P. Koene, Rob M.W. de Waal, and M. José J.T. Bogman* 1

LABORATORY INVESTIGATION

Biochemical investigation of the pathogenesis of Heymann Nephritis. *Monique Behar, Allan Katz, and Mel Silverman* 9

The renal action of atrial natriuretic peptide during control of glomerular filtration. *John C. Burnett, Jr., Terry J. Opgenorth, and Joey P. Granger* 16

Bilateral native nephrectomy improves renal isograft function in rats. *Thomas M. Coffman, Fred P. Sanfilippo, Peter C. Brazy, William E. Yarger, and Paul E. Klotman* 20

De Novo pyrimidine nucleotide biosynthesis in isolated rat glomeruli. *Pedro Cortes, Francis Dumler, and Nathan W. Levin* 27

Magnetic resonance spectroscopy for the determination of renal metabolic rate in vivo. *Dominique M. Freeman, Laurence Chan, Haliru Yahaya, Paul Holloway, and Brian D. Ross* 35

Mineralocorticoid–stimulated renal acidification: The critical role of dietary sodium. *John T. Harrington, Henry N. Hulter, Jordan J. Cohen, and Nicolaos E. Madias* 43

Effect of vasopressin antagonist on water excretion in inferior vena cava constriction. *San-e Ishikawa, Toshikazu Saito, Koje Okada, Kumiko Tsutsui, and Takeshi Kuzuya* 49

Angiotensin II control of the renal microcirculation: Effect of blockade by saralasin. *Michael Steinhausen, Helmut Kücherer, Niranjan Parekh, Stefan Weis, David L. Wiegman, and Karl–Rainer Wilhelm* 56

Effects of the anaphylatoxin, C5a, on renal and glomerular hemodynamics in the rat. *Juan C. Pelayo, Dennis E. Chenoweth, Tony E. Hugli, Curtis B. Wilson, and Roland C. Blantz* ... 62

The effect of desferrioxamine on concentration and distribution of aluminum in bone. *Dierik Verbeelen, Johanna Smeyers–Verbeke, Ingrid Van Hooff, Anita Van Der Straeten, and Guy De Roy* 68

CLINICAL INVESTIGATION

Compartmental distribution of complement activation products in artificial kidneys. *Alfred K. Cheung, Dennis E. Chenoweth, Dawn Otsuka, and Lee W. Henderson* 74

Phenacetin and papillary necrosis: Independent risk factors for renal pelvic cancer. *Margaret McCredie, John H. Stewart, Jeanette J. Carter, Jennifer Turner, and John F. Mahony* 81

A urinary calcium–citrate index for the evaluation of nephrolithiasis. *Joan H. Parks and Fredric L. Coe* 85

Use of β_2 microglobulin to diagnose tubulo-interstitial renal lesions in children. *Ronald J. Portman, John M. Kissane, and Alan M. Robson, with the technical assistance of Linda J. Peterson and Anne Richardson* 91

Longitudinal follow–up of chronic hemodialysis patients without vitamin supplementation. *German Ramirez, Marianne Chen, H. Worth Boyce, Jr., Suzanne M. Fuller, Rama Ganguly, Carl D. Brueggemeyer, and Doris E. Butcher* 99

The Goodpasture antigen in Alport's syndrome: Studies with a monoclonal antibody. *Caroline O.S. Savage, Charles D. Pusey, Michael J. Kershaw, Stephen J. Cashman, Peter Harrison, Barry Hartley, David R. Turner, J. Stewart Cameron, David J. Evans, and C. Martin Lockwood* 107

Contents continued on next page

Contents continued

TECHNICAL NOTE

A micro method to measure para-amino hippurate and creatinine in plasma and urine. *Robert L. Baranowski and Christof Westenfelder* 113

NEPHROLOGY FORUM

Extrarenal potassium homeostasis. *Robert S. Brown* 116

ABSTRACTS

Spanish Society of Nephrology 128

INTERNATIONAL SOCIETY OF NEPHROLOGY

Announcements 136

Awards and Grants 139

KIDNEY INTERNATIONAL

Volume 29, Supplement 19

Proceedings of the 3rd Annual
Downstate Pediatric Nephrology Symposium
April 1985, New York, New York, USA

Table of contents

Introduction. *Amir Tejani* S-1

Nutrition therapy in renal disease. *Malcolm A. Holiday* S-3

CAPD/CCPD in children: Four years' experience. *Richard N. Fine and Isidro B. Salusky* S-7

Comparison of continuous ambulatory peritoneal dialysis and hemodialysis in children. *Donald E. Potter, Elizabeth San Luis, Jane E. Wipfler, and Anthony A. Portale* S-11

Pediatric hemodialysis: A decade's perspective. *Howard Trachtman, Patricia Hackney, and Amir Tejani* S-15

The current state of renal transplantation. *R. Y. Calne* S-23

Current results in pediatric renal transplantation at the University of Minnesota. *Samuel K. S. So, S. Michael Mauer, Thomas E. Nevins, David S. Fryd, David E. R. Sutherland, Nancy L. Ascher, Richard L. Simmons, and John S. Najarian* S-25

Pediatric renal transplants: A Canadian perspective. *Gerald S. Arbus, Denis F. Geary, Gordon A. McLorie, Marilyn L. Major, Steven E. Berdock, Lila Freedman, and Reuben Baumal* S-31

Cyclosporine experience in renal transplantation in children. *Amir Tejani, Khalid M. H. Butt, M. Rashid Khawar, Kishore Phadke, Orlando Adamson, J. Hong, Maria Fusi, and Howard Trachtman* S-35

Recurrence of focal segmental glomerulosclerosis in children with steroid resistant nephrotic syndrome following renal transplantation. *Jane E. Strigel, Richard K. Sibley, David S. Fryd, and S. Michael Mauer* S-44

Recurrence of hemolytic uremic syndrome in renal transplant recipients. *Diane Hebert, Richard K. Sibley, and S. Michael Mauer* S-51

Pathophysiology of growth failure in chronic renal insufficiency. *Cynthia B. French and Myron Genel* S-59

KIDNEY INTERNATIONAL

Volume 30, Number 2, August 1986

Official Journal of the International Society of Nephrology

Le Journal de la Société Internationale de Néphrologie

Table of contents

SYMPOSIUM ON METHODS IN RENAL RESEARCH

Introduction. *Kidney International Editors* 141

Renal clearance and isolated kidney perfusion techniques. *Thomas Maack* 142

Micropuncture techniques. *Gary A. Quamme and John H. Dirks* 152

Single tubule perfusion techniques. *Maurice B. Burg and Mark A. Knepper* 166

Transport studies in plasma membrane vesicles isolated from renal cortex. *Heini Murer and Piotr Gmaj* 171

Continuous measurements of cell volume changes in single kidney tubules. *Guillermo Whittembury, Bernd Lindemann, Paola Carpi-Medina, Ernesto González, and Henry Linares* ... 187

Methods for imaging renal tubule cells. *Kevin Strange and Kenneth R. Spring* 192

Isolation and use of specific nephron segments and their cells in biochemical studies. *Detlef Schlondorff* 201

Studies of kidney cells in culture. *Joseph S. Handler* 208

The electrophysiological analysis of tubular transport. *Eberhard Frömter* 216

Immunoelectron microscopy in kidney research: Some contributions and limitations. *Dontscho Kerjaschki, Hajime Sawada, and Marilyn Gist Farquhar* 229

Cell culture approaches to the analysis of glomerular inflammation. *David H. Lovett and R. Bernd Sterzel* 246

Quantitation of exogenous and endogenous components of glomerular immune deposits. *David J. Salant, Andrey V. Cybulsky, and Irwin D. Feintzeig* 255

Experimental strategies for the study of cellular immunity in renal disease. *Eric G. Neilson, Michael D. Clayman, Thomas Haverty, Carolyn J. Kelly, and Richard Mann* 264

NEPHROLOGY FORUM

Requiem for gouty nephropathy. *Laurence H. Beck* 280

THE INTERNATIONAL SOCIETY OF NEPHROLOGY

Announcements 288

Awards and Grants 291

KIDNEY INTERNATIONAL

Volume 30, Number 3, September 1986

Official Journal of the International Society of Nephrology

Le Journal de la Société Internationale de Néphrologie

Table of contents

EDITORIAL REVIEW

Recent advances in the biochemistry of glomerular basement membrane. *Rupert Timpl* 293

LABORATORY INVESTIGATION

Dietary protein prior to renal ischemia dramatically affects postischemic kidney function. *Peter M. Andrews and Sally B. Bates* 299

Serotonin and the renal blood supply: Role of prostaglandins and the 5HT-2 receptor. *Joseph L. Blackshear, Cesare Orlandi, and Norman K. Hollenberg* 304

Amphotericin B and Amphotericin B methylester: Effect on brush border membrane permeability. *Giovambattista Capasso, Hendrike Schuetz, Beate Vickermann, and Rolf Kinne* 311

The effects of discontinuation of aluminum exposure on aluminum–induced osteomalacia. *Jane Lewis Finch, Michele Bergfeld, Kevin J. Martin, Yuk–Luen Chan, Steven Teitelbaum, and Eduardo Slatopolsky* 318

Effects of (CO_2 + HCO_3^-) on electrical conductance in cortical thick ascending limbs. *Peter A. Friedman and Thomas E. Andreoli* 325

Changes in single nephron renin release are mediated by tubular fluid flow rate. *Paul P. Leyssac* ... 332

Glutamine transport in the rabbit proximal straight tubule: Effect of acute acid pH. *Michio Kuwahara, Sei Sasaki, Tatsuo Shiigai, and Jugoro Takeuchi* 340

Effect of experimental diabetes on insulin binding by renal basolateral membranes. *Ralph Rabkin, Paula Hirayama, Richard A. Roth, and Bruce H. Frank* 348

Acute renal failure in hemorrhagic hypotension: Cellular energetics and renal function. *Peter J. Ratcliffe, Chrit T. W. Moonen, Paul A. H. Holloway, John G. G. Ledingham, and George K. Radda* 355

Responses of in vivo renal microvessels to dopamine. *Michael Steinhausen, Stefan Weis, John Fleming, Rudolf Dussel, and Niranjan Parekh* 361

A new method for studying human polycystic kidney disease epithelia in culture. *Patricia D. Wilson, Robert W. Schrier, Ruth D. Breckon, and Patricia A. Gabow* 371

CLINICAL INVESTIGATION

Continuous ambulatory peritoneal dialysis and bone. *James A. Delmez, Michael D. Fallon, Michele A. Bergfeld, Barbara K. Gearing, C. Sue Dougan, and Steven L. Teitelbaum* 379

β_2-microglobulin: A new form of amyloid protein associated with chronic hemodialysis. *Fumitake Gejyo, Shoji Odani, Toshiyuki Yamada, Noriyuki Honma, Hidehiko Saito, Yasushi Suzuki, Yoichi Nakagawa, Hiroyuki Kobayashi, Yuichiro Maruyama, Yoshihei Hirasawa, Masashi Suzuki, and Masaaki Arakawa* 385

Isolation and chemical identification of inhibitors of plasma ligand binding. *Paul F. Gulyassy, Albert T. Bottini, Linda A. Stanfel, Elizabeth A. Jarrard, and Thomas A. Depner* 391

Immunohistochemical study of the C5b-9 complex of complement in human kidneys. *Nicole Hinglais, Michel D. Kazatchkine, Sucharit Bhakdi, Marie–Dominique Appay, Chantal Mandet, Jeanine Grossetete, and Jean Bariety* 399

Contents continued on next page

Contents continued

Altered skeletal muscle ultrastructure in renal transplant patients on prednisone. *Fritz F. Horber, Hans Hoppeler, Daniel Herren, Helgard Claassen, Hans Howald, Christian Gerber, and Felix J. Frey* 411

Factors determining renal response to water immersion in non-excretor cirrhotic patients. *Kathleen M. Nicholls, Michael D. Shapiro, Bertron S. Groves, and Robert W. Schrier* 417

Successful management of uric acid nephrolithiasis with potassium citrate. *Charles Y. C. Pak, Khashayar Sakhaee, and Cindy Fuller* 422

Permeability and secondary membrane formation of a high flux polysulfone hemofilter. *Arnold Röckel, Joachim Hertel, Peter Fiegel, Saleh Abdelhamid, Norbert Panitz, and Dieter Walb* 429

TECHNICAL NOTE

A new method of inducing experimental chronic renal failure by cryosurgery. *Kazuo Kumano, Kyuya Kogure, Toshio Tanaka, and Tadasu Sakai* 433

NEPHROLOGY FORUM

The sympathetic nervous system in clinical and experimental hypertension. *Suzanne Oparil* 437

ABSTRACTS

Swiss Society of Nephrology 453

INTERNATIONAL SOCIETY OF NEPHROLOGY

Announcements 460

Awards and Grants 463

KIDNEY INTERNATIONAL

Volume 30, Number 4, October 1986

Official Journal of the International Society of Nephrology

Le Journal de la Société Internationale de Néphrologie

Table of contents

EDITORIAL REVIEW

Neoplasia and glomerular injury. *Charles E. Alpers and Ramzi S. Cotran* 465

LABORATORY INVESTIGATION

Roles for thromboxane A_2 and leukotrienes in endotoxin-induced acute renal failure. *Kamal F. Badr, Vicki E. Kelley, Helmut G. Rennke, and Barry M. Brenner* 474

Benefit from high intrarenal levels of gentamicin in the treatment of *E. coli* pyelonephritis. *Michael G. Bergeron and Yves Marois* 481

Tubulo-interstitial lesions mediate renal damage in adriamycin glomerulopathy. *Tullio Bertani, Franca Cutillo, Carla Zoja, Massimo Broggini, and Giuseppe Remuzzi* 488

Response of spontaneously hypertensive rats to $1,25(OH)_2D_3$ in vivo. *Uzi Gafter, Bonnie Eby, Craig Martin, and Kai Lau* 497

Effects of angiotensin II on plasma antidiuretic hormone and renal water excretion. *William L. Henrich, Benjamin R. Walker, William A. Handelman, Abby L. Erickson, Patricia F. Arnold, and Robert W. Schrier* 503

Chronic effects of dietary protein in the rat with intact and reduced renal mass. *Thomas H. Hostetter, Timothy W. Meyer, Helmut G. Rennke, and Barry M. Brenner, with the technical assistance of J. A. Noddin and D. J. Sandstrom* 509

Effect of a high NaCl diet on the active mechanisms of Na^+ extrusion in rat kidney. *Reinaldo Marín María A. Obando Teresa Proverbio, and Fulgencio Proverbio* 518

Leukotriene C_4 and D_4 contract rat glomerular mesangial cells. *Michael S. Simonson and Michael J. Dunn* 524

Paradoxical potassium depletion: A renal mechanism for extrarenal potassium adaption. *Aaron Spital and Richard H. Sterns* 532

Role for angiotensin II in an overt functional proteinuria. *Toshimasa Yoshioka, Tetsuya Mitarai, Valentina Kon, William M. Deen, Helmut G. Rennke, and Iekuni Ichikawa* 538

CLINICAL INVESTIGATION

Segmental characterization of defects in collecting tubule acidification. *Daniel C. Batlle* 546

Platelet cationic proteins are present in glomeruli of lupus nephritis patients. *Giovanni Camussi, Circ Tetta, Gianna Mazzucco, Guido Monga, Caterina Roffinello, Maura Alberton, Paolo Dellabona, Fabio Malavasi, and Antonio Vercellone* 555

Plasma free, sulfo- and glucuro-conjugated catecholamines in uremic patients. *Jean-Louis Cuche, Jacques Prinseau, Francoise Selz, Gérard Ruget, and Alain Baglin* 566

Monoclonal antibody identification of infiltrating mononuclear leukocytes in lupus nephritis. *Vivette D. D'Agati, Gerald B. Appel, Dorothy Estes, Daniel M. Knowles II, and Conrad L. Pirani* . 573

Reversibility of urinary tract abnormalities due to Schistosoma haematobium infection. *Ekkehard Doehring, Jochen H. H. Ehrich, and Hans J. Bremer* 582

Effect of age and diabetes on type IV collagen and laminin in human kidney cortex. *Tuomo Karttunen, Juha Risteli, Helena Autio-Harmainen, and Leila Risteli* 586

Immune complex glomerulopathy in a child with food hypersensitivity. *Wallace W. McCrory, Carl G. Becker, Charlotte Cunningham-Rundles, Renate F. Klein, Janet Mouradian, and Lewis Reisman* 592

Contents continued on next page

Trace elements in serum, packed cells, and dialysate of CAPD patients. *Bart Wallaeys, Rita Cornelis, Louis Mees, and Norbert Lameire* 599

NEPHROLOGY FORUM

Hemodynamic instability during hemodialysis. *William L. Henrich* 605

ABSTRACTS

The Australasian Society of Nephrology 613

The Dutch Society of Nephrology 631

Société de Néphrologie 638

INTERNATIONAL SOCIETY OF NEPHROLOGY

Announcements 644

Awards and Grants 646

KIDNEY INTERNATIONAL

Volume 30, Number 5, November 1986

Official Journal of the International Society of Nephrology

Le Journal de la Société Internationale de Néphrologie

Table of contents

EDITORIAL REVIEW

Monoclonal antibodies and identification of glomerular antigens. *Pierre Verroust, Pierre Marie Ronco, and François Chatelet* 649

LABORATORY INVESTIGATION

Elevation of intrarenal adenosine by maleic acid decreases GFR and renin release. *Lois J. Arend, Carl I. Thompson, Marilyn A. Brandt, and William S. Spielman* 656

Light chain effects on alanine and glucose uptake by renal brush border membranes. *Vecihi Batuman, Malinee Sastrasinh, and Sithiporn Sastrasinh* 662

Direct antiGBM antibody induced alterations in glomerular permselectivity. *Neil W. Boyce and Stephen R. Holdsworth* 666

Lymphokine (MIF) production by glomerular T-lymphocytes in experimental glomerulonephritis. *Neil W. Boyce, Peter G. Tipping, and Stephen R. Holdsworth* 673

Immune complex induced glomerular lesions in C5 sufficient and deficient mice. *Ronald J. Falk and J. Charles Jennette* 678

Role of amount and nature of carbohydrates in the course of experimental renal failure. *Claire Kleinknecht, Denise Laouari, Nicole Hinglais, Renée Habib, Catherine Dodu, Bernard Lacour, and Michel Broyer, with the assistance of Edouard Nalbandian and Mireille Lacoste* 687

The effects of metabolic acidosis on bone formation and bone resorption in the rat. *Jeffrey A. Kraut, Delta R. Mishler, Frederick R. Singer, and William G. Goodman* 694

Polyunsaturated fatty acids increase fibrinolytic activity of human isolated glomeruli. *Eric Rondeau, Eduardo Angles-Cano, Francoise Delarue, Yvette Sultan, and Jean-Daniel Sraer* . 701

Direct antigen binding to glomerular immune complex deposits. *David M. Ward, Sun Lee, and Curtis B. Wilson* 706

Effects of chlorpropamide on loop of Henle function and plasma renin. *William J. Welch, Cobern E. Ott, John N. Lorenz, and Theodore A. Kotchen* 712

CLINICAL INVESTIGATION

Stainable aluminum and not aluminum content reflects bone histology in dialyzed patients. *Marie-Claude Faugere and Hartmut H. Malluche* 717

Endogenous digitalis-like factors in hypertension and chronic renal insufficiency. *Ralph A. Kelly, Donald S. O'Hara, William E. Mitch, Theodore I. Steinman, Robert C. Goldszer, Harold S. Solomon, and Thomas W. Smith* 723

The importance of plasma protein for blood volume and blood pressure homeostasis. *Hendrik A. Koomans, Branko Braam, Anton B. Geers, Jan C. Roos, and Evert J. Dorhout Mees* 730

Peritoneovenous shunt in the management of the hepatorenal syndrome. *Stuart L. Linas, John W. Schaefer, Ernest E. Moore, James T. Good, Jr., and Richard Giansiracusa* 736

Energy expenditure in patients with chronic renal failure. *Francisco J. Monteon, Stewart A. Laidlaw, John K. Shaib, and Joel D. Kopple* 741

Clinical characteristics and diagnostic considerations in acquired renal cystic disease. *Nagraj Narasimhan, Thomas A. Golper, Marsha Wolfson, Mohammadtaghi Rahatzad, and William M. Bennett* 748

Contents continued on next page

Contents continued

The absorption of dietary phosphorus and calcium in hemodialysis patients. *J. Arnaldo Ramirez, Michael Emmett, Martin G. White, Nastaran Fathi, Carol A. Santa Ana, Stephen G. Morawski, and John S. Fordtran* 753

Effects of acute and chronic dosing of NSAIDs in patients with renal insufficiency. *Robert D. Toto, Shirley A. Anderson, Debbie Brown-Cartwright, Juha P. Kokko, and D. Craig Brater* 760

NEPHROLOGY FORUM

The treatment of lupus nephritis. *Alfred D. Steinberg* 769

INTERNATIONAL SOCIETY OF NEPHROLOGY

Announcements 788

Awards and Grants 790

NOTICE TO ISN MEMBERS
REGARDING ANNUAL DUES

The Executive Committee and the Management Committee of the International Society of Nephrology have agreed that, beginning in 1987, dues for ISN members will be increased from $75 (US) to $100 (US). The purposes of this increase in the dues are two fold: an increase in the subscription costs for KIDNEY INTERNATIONAL to support the increased size of our journal; and to support the educational programs of the Society, such as the ISN Fellowship Program.

Robert W. Schrier, M.D.
Treasurer
ISN

KIDNEY INTERNATIONAL

Volume 30, Number 6, December 1986

Official Journal of the International Society of Nephrology

Le Journal de la Société Internationale de Néphrologie

Table of contents

EDITORIAL REVIEW

The metabolism and mechanism of action of 1,25-dihydroxyvitamin D_3. *Rajiv Kumar*..... 793

LABORATORY INVESTIGATION

Coordinately increased lysozymuria and lysosomal enzymuria induced by maleic acid. *Hamoudi A. Al–Bander, Donald M. Mock, Stephen B. Etheredge, Thomas T. Paukert, Michael H. Humphreys, and R. Curtis Morris, Jr*..... 804

Hydroxyl radical mediation of immune renal injury by desferrioxamine. *Neil W. Boyce and Stephen R. Holdsworth* 813

Proximal tubule morphology after single nephron obstruction in the rat kidney. *Andrew P. Evan and George A. Tanner, with the technical assistance of Philip Blomgren and Lisa C. Knopp* 818

Role of peritubular capillary forces in the renal action of carbonic anhydrase inhibitor. *Iekuni Ichikawa and Valentina Kon* 828

Loss of glomerular responses to vasoconstrictor agents in rabbits recovering from ARF. *Katsuhito Ikuma, Nishio Honda, Akira Hishida, and Mitsumasa Nagase*..... 836

Interaction of immune complexes with glomerular heparan sulfate–proteoglycans. *Yashpal S. Kanwar, Teresa Caulin-Glaser, Gloria R. Gallo, and Michael E. Lamm*..... 842

Demonstration and characterization of C3 receptors on rat glomerular epithelial cells. *Balakuntalam S. Kasinath, Marieta R. Maaba, Melvin M. Schwartz, and Edmund J. Lewis* 852

Contraction and relaxation of cultured mesangial cells on a silicone rubber surface. *Pravin C. Singhal, Linda A. Scharschmidt, Nora Gibbons, and Richard M. Hays* 862

Effect of chronic administration of different Bence Jones proteins on rat kidney. *Peter Smolens, Jeffrey L. Barnes, and Jay H. Stein*..... 874

Augmented aldosterone and insulin responses to potassium infusion in dogs with renal failure. *Michael L. Tuck, Mayer B. Davidson, Norman Asp, and Raymond G. Schultze* 883

Utilization of alpha-ketoisocaproate for protein synthesis in uremic rats. *Kriang Tungsanga, Chang W. Kang, and Mackenzie Walser*..... 891

The effects of angiotensin II and norepinephrine on afferent arterioles in the rat. *Stephen K. Wilson* 895

Impaired renal acidification following acute renal ischemia in the dog. *Joseph Winaver, Dan Agmon, Reuven Harari, and Ori S. Better* 906

CLINICAL INVESTIGATION

Successful pregnancy in primary glomerular disease. *P. Barceló, J. López–Lillo, L. Cabero, and G. Del Rio*..... 914

Pulmonary gas exchange during hemodialysis. *Yves Bouffard, Jean–Paul Viale, Guy Annat, Christian Guillaume, Carlisle Percival, Olivier Bertrand, and Jean Motin*..... 920

Sequential study of the IgA system in relapsing IgA nephropathy. *John Feehally, T. James Beattie, Paul E. C. Brenchley, Beatrice M. Coupes, Netar P. Mallick, and Robert J. Postlethwaite*. 924

Detection of both isotypes of complement C4, C4A and C4B, in normal human glomeruli. *Helmut E. Feucht, Christina M. Jung, Michael J. Gokel, Gert Riethmüller, Jörg Zwirner, Angelika Brase, Eckhard Held, and Geoffrey J. O'Neill* 932

Gentamicin and phenytoin sieving through hollow–fiber polysulfone hemofilters. *Thomas A. Golper and Abdel-Meguid A. Saad, with the statistical assistance of Cynthia D. Morris*.... 937

Contents continued on next page

Aluminum removal by peritoneal dialysis: Intravenous vs. intraperitoneal deferoxamine. *Gavril Hercz, Isidro B. Salusky, Keith C. Norris, Richard N. Fine, and Jack W. Coburn* 944

H deficiency in two brothers with atypical dense intramembranous deposit disease. *Micheline Levy, Lise Halbwachs–Mecarelli, Marie–Claire Gubler, Gérard Kohout, Abdelatif Bensenouci, Patrick Niaudet, Georges Hauptmann, and Philippe Lesavre* 949

Electrophysiological indices of CNS function in hemodialysis and CAPD. *James T. Marsh, Warren S. Brown, Deane Wolcott, John Landsverk, and Allen R. Nissenson* 957

NEPHROLOGY FORUM

Cyclosporine nephrotoxicity. *Bryan D. Myers* 964

ABSTRACT

South African Renal Society 975

INTERNATIONAL SOCIETY OF NEPHROLOGY

Meetings 982

Awards and Grant 983

REFEREES 985

INDEXES TO VOLUME 30